TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2BN8F-CAMC100	
Test Report No..... :	TCT250408E015	
Date of issue..... :	Apr. 17, 2025	
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	NUMLAKE TECH LIMITED	
Address..... :	UNIT 1505, 15/F WORKINGPORT COMMERCIAL BUILDING 3 HAU FOOK STREET TSIM SHA TSUI HONG KONG, China	
Manufacturer's name ... :	NUMLAKE TECH LIMITED	
Address..... :	UNIT 1505, 15/F WORKINGPORT COMMERCIAL BUILDING 3 HAU FOOK STREET TSIM SHA TSUI HONG KONG, China	
Standard(s) ..... :	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	
Product Name..... :	Indoor Security Camera	
Trade Mark ..... :	N/A	
Model/Type reference..... :	C100, C200, C300, C500, C600, C700, C800, C900	
Rating(s)..... :	DC 5V	
Date of receipt of test item ..... :	Apr. 08, 2025	
Date (s) of performance of test..... :	Apr. 08, 2025 ~ Apr. 17, 2025	
Tested by (+signature) ... :	Onnado YE	Onnado
Check by (+signature).... :	Beryl ZHAO	Beryl
Approved by (+signature):	Tomsin	Tomsin

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name.....:	Indoor Security Camera
Model/Type reference.....:	C100
Sample Number.....:	TCT250408E005-0101
Operation Frequency.....:	Band 1: 5180 MHz ~ 5240 MHz Band 2A: 5260 MHz ~ 5320 MHz Band 2C: 5500 MHz ~ 5700 MHz Band 3: 5745 MHz ~ 5825 MHz
Channel Bandwidth.....:	802.11a: 20MHz 802.11n: 20MHz, 40MHz
Modulation Technology.....:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type.....:	64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	FPC Antenna
Antenna Gain.....:	Band 1: 4.31dBi Band 2A: 4.21dBi Band 2C: 3.97dBi Band 3: 4.45dBi
Rating(s).....:	DC 5V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	C100	☒
Other models	C200, C300, C500, C600, C700, C800, C900	☐

Note: C100 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of C100 can represent the remaining models.

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1.3. Test Frequency

Band 1

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
36	5180	38	5190
40	5200	46	5230
48	5240		

Band 2A

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
52	5260	54	5270
60	5300	62	5310
64	5320		

Band 2C

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
100	5500	102	5510
120	5600	118	5590
140	5700	134	5670

Band 3

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
149	5745	151	5755
157	5785	159	5795
165	5825		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(b)	PASS
Radiated Emission	§15.407(b)	PASS
Frequency Stability	§15.407(g)	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

5.For the band 5.15-5.25GHz, EUT meet the requirements of 15.407(a)(ii).

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3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Software:	
Software Information:	SSCOM
Power Level:	11
Test Mode:	
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with max. duty cycle.
The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps

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3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	EP-TA200	R37M4PR7QD4SE3	/	SAMSUNG

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098
  SHENZHEN TONGCE TESTING LAB
  Designation Number: CN1205
  The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.
- IC - Registration No.: 10668A
  SHENZHEN TONGCE TESTING LAB
  CAB identifier: CN0031
  The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB
Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
TEL: +86-755-27673339

4.3. Measurement Uncertainty

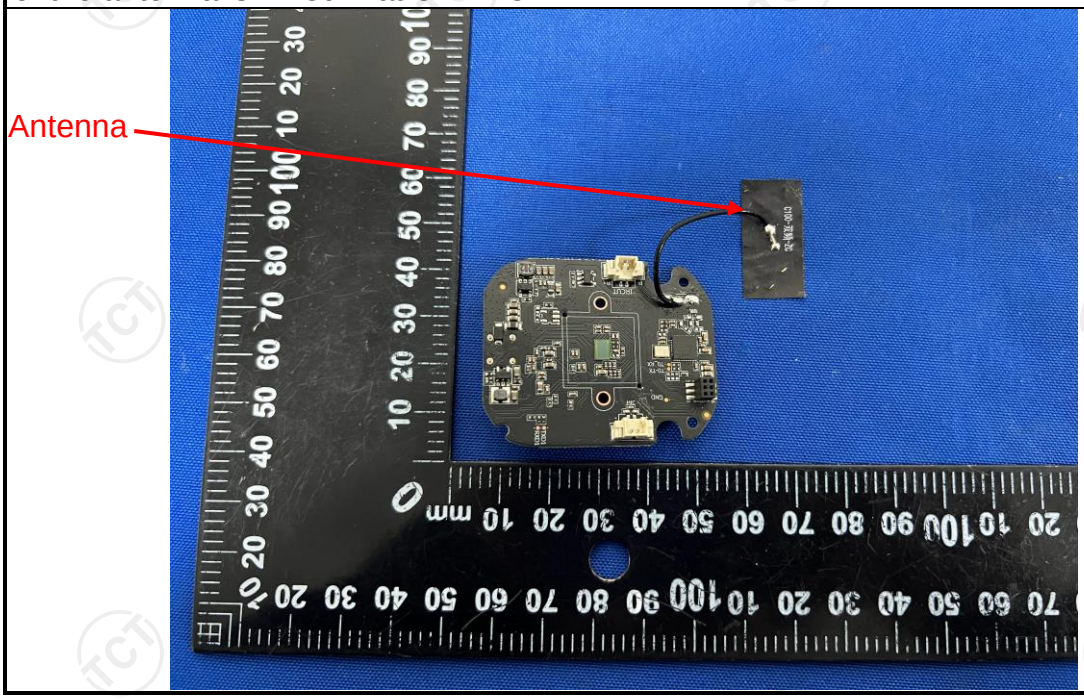
The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

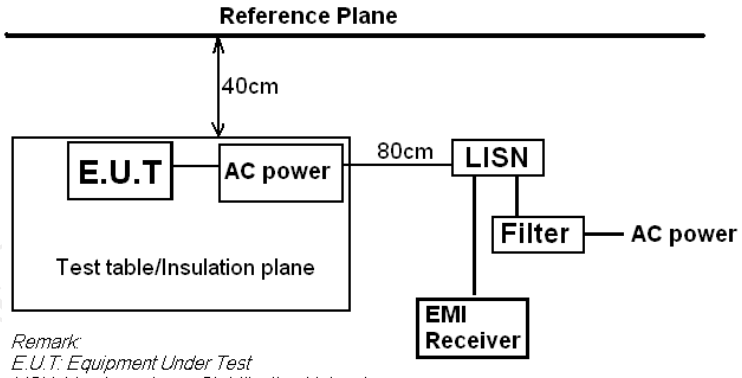
5.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
The EUT antenna is FPC antenna which permanently attached, and the best case gain of the antenna is 4.45dBi at UNII-B3.	



5.2. Conducted Emission

5.2.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2020</td></tr>
<tr><td>Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz, Sweep time=auto</td></tr>
<tr><td>Limits:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td> 

Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m</td></tr>
<tr><td>Test Mode:</td><td>Transmitting Mode</td></tr>
<tr><td>Test Procedure:</td><td>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement.</td></tr>
<tr><td>Test Result:</td><td>PASS</td></tr>
</table>

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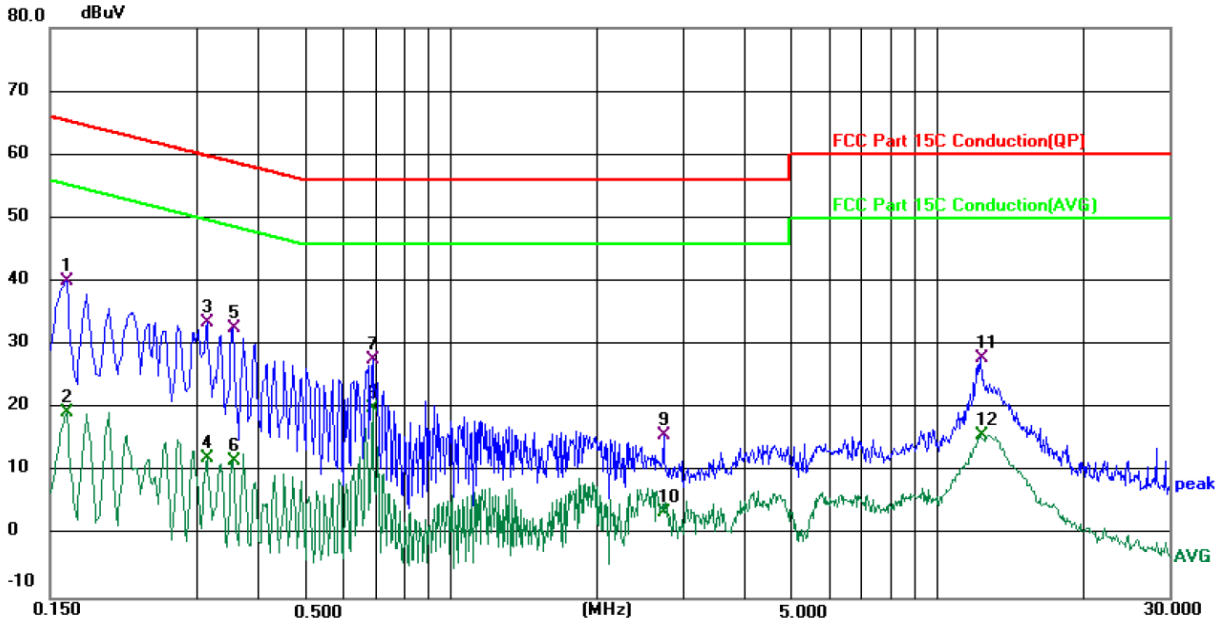
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Date of Cal.**	**Due Date**
EMI Test Receiver	R&S	ESCI3	100898	Jun. 27, 2024	Jun. 26, 2025
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 21, 2025	Jan. 20, 2026
Attenuator	N/A	10dB	164080	Jun. 27, 2024	Jun. 26, 2025
Line-5	TCT	CE-05	/	Jun. 27, 2024	Jun. 26, 2025
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	/	/

5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room | Phase: *L1* | Temperature: 22.3 (℃) | Humidity: 50 %

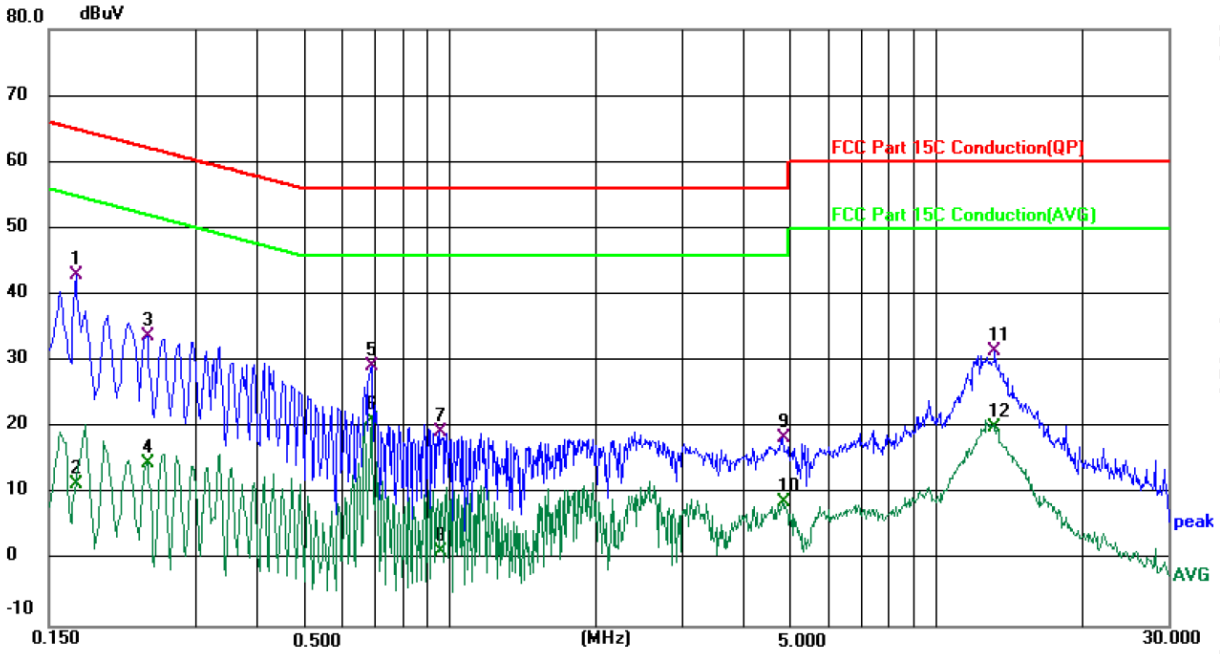
Limit: FCC Part 15C Conduction(QP) | Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	30.19	9.95	40.14	65.36	-25.22	QP	
2		0.1620	9.49	9.95	19.44	55.36	-35.92	AVG	
3		0.3140	23.59	9.94	33.53	59.86	-26.33	QP	
4		0.3140	2.28	9.94	12.22	49.86	-37.64	AVG	
5		0.3540	22.82	9.93	32.75	58.87	-26.12	QP	
6		0.3540	1.78	9.93	11.71	48.87	-37.16	AVG	
7		0.6900	17.74	9.90	27.64	56.00	-28.36	QP	
8		0.6900	10.12	9.90	20.02	46.00	-25.98	AVG	
9		2.7380	5.64	10.07	15.71	56.00	-40.29	QP	
10		2.7380	-6.43	10.07	3.64	46.00	-42.36	AVG	
11		12.3060	17.65	10.35	28.00	60.00	-32.00	QP	
12		12.3060	5.45	10.35	15.80	50.00	-34.20	AVG	

Note:

Freq. = Emission frequency in MHz
Reading level (dBμV) = Receiver reading
Corr. Factor (dB) = LISN factor + Cable loss
Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)
Limit (dBμV) = Limit stated in standard
Margin (dB) = Measurement (dBμV) – Limits (dBμV)
Q.P. =Quasi-Peak
AVG =average
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: *L1*

Temperature: 22.3 (℃)

Humidity: 50 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1700	33.01	9.94	42.95	64.96	-22.01	QP	
2		0.1700	1.58	9.94	11.52	54.96	-43.44	AVG	
3		0.2379	23.84	9.93	33.77	62.17	-28.40	QP	
4		0.2379	4.73	9.93	14.66	52.17	-37.51	AVG	
5		0.6900	19.44	9.90	29.34	56.00	-26.66	QP	
6		0.6900	11.26	9.90	21.16	46.00	-24.84	AVG	
7		0.9539	9.47	9.94	19.41	56.00	-36.59	QP	
8		0.9539	-8.55	9.94	1.39	46.00	-44.61	AVG	
9		4.8259	8.29	10.15	18.44	56.00	-37.56	QP	
10		4.8259	-1.45	10.15	8.70	46.00	-37.30	AVG	
11		13.1980	21.11	10.37	31.48	60.00	-28.52	QP	
12		13.1980	9.56	10.37	19.93	50.00	-30.07	AVG	

Note:

Freq. = Emission frequency in MHz
Reading level (dBµV) = Receiver reading
Corr. Factor (dB) = LISN factor + Cable loss
Measurement (dBµV) = Reading level (dBµV) + Corr. Factor (dB)
Limit (dBµV) = Limit stated in standard
Margin (dB) = Measurement (dBµV) – Limits (dBµV)
Q.P. =Quasi-Peak
AVG =average
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*
Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40) and the worst case Mode (Channel 120 and 802.11a) was submitted only.

5.3. Maximum Conducted Output Power

5.3.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046</td></tr>
<tr><td>Test Method:</td><td>KDB662911 D01 Multiple Transmitter Output v02r01
KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency Band (MHz)</td><td>Limit</td></tr>
<tr><td>5180 - 5240</td><td>24dBm(250mW) for client device</td></tr>
<tr><td>5260 - 5320</td><td>24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz</td></tr>
<tr><td>5470 - 5725</td><td>24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz</td></tr>
<tr><td>5745 - 5825</td><td>30dBm(1W)</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Test Procedure:</td><td>1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
5. Measure the conducted output power and record the results in the test report.</td></tr>
<tr><td>Test Result:</td><td>PASS</td></tr>
<tr><td>Remark:</td><td>Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0
Conducted output power= measurement power</td></tr>
</table>

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Power Meter	Agilent	E4418B	MY45100357	Jun. 27, 2024	Jun. 26, 2025
Power Sensor	Agilent	8481A	MY41091497	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/

5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/

5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/

5.6. Power Spectral Density

5.6.1. Test Specification

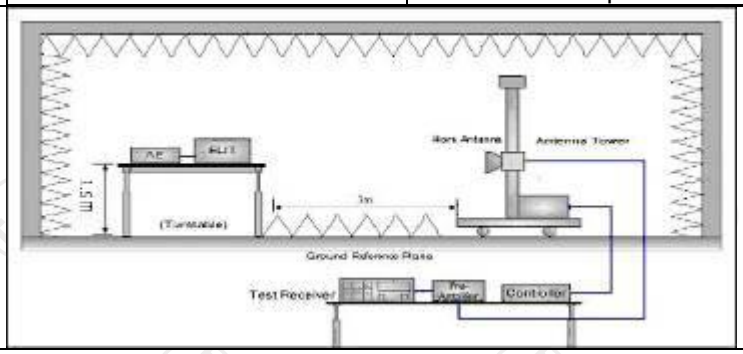
Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level.
Test Result:	PASS

5.6.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/

5.7. Band edge

5.7.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC CFR47 Part 15E Section 15.407</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2020</td></tr>
<tr><td>Limit:</td><td>In un-restricted band:
For Band 1&2A&2C: -27dBm/MHz
For Band 3:
<table>
<tr><td>Frequency (MHz)</td><td>Limit (dBm/MHz)</td><td>Frequency (MHz)</td><td>Limit (dBm/MHz)</td></tr>
<tr><td>< 5650</td><td>-27</td><td>5850~5855</td><td>27~15.6</td></tr>
<tr><td>650~5700</td><td>-27~10</td><td>5855~5875</td><td>15.6~10</td></tr>
<tr><td>5700~5720</td><td>10~15.6</td><td>5875~5925</td><td>10~-27</td></tr>
<tr><td>5720~5725</td><td>15.6~27</td><td>> 5925</td><td>-27</td></tr>
</table>
E[dBμV/m] = EIRP[dBm] + 95.2 @3m
In restricted band:
<table>
<tr><td>Detector</td><td>Limit@3m</td></tr>
<tr><td>Peak</td><td>74dBμV/m</td></tr>
<tr><td>AVG</td><td>54dBμV/m</td></tr>
</table></td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold</td></tr>
</table>

	Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
Test Result:	PASS

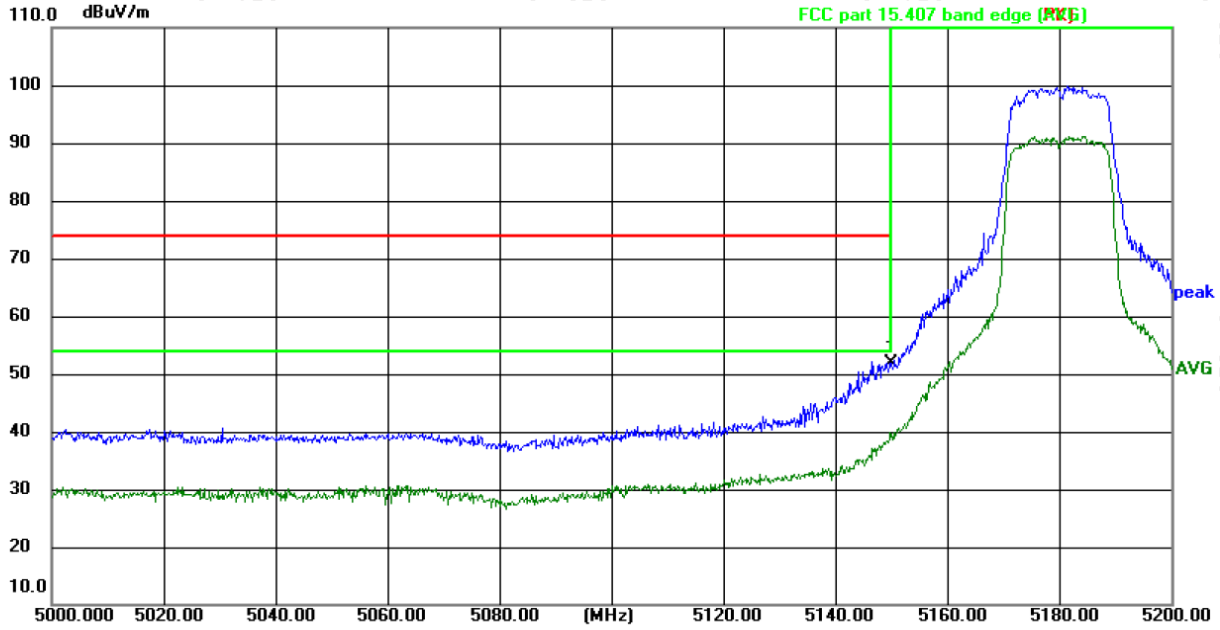
5.7.2. Test Instruments

Radiated Emission Test Site (966)					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Date of Cal.**	**Due Date**
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2024	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024	Jun. 26, 2025
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 27, 2024	Jun. 26, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 23, 2025	Jan. 22, 2026
Coaxial cable	SKET	RE-03-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 27, 2024	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/	/
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	/	/

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.7.3. Test Data

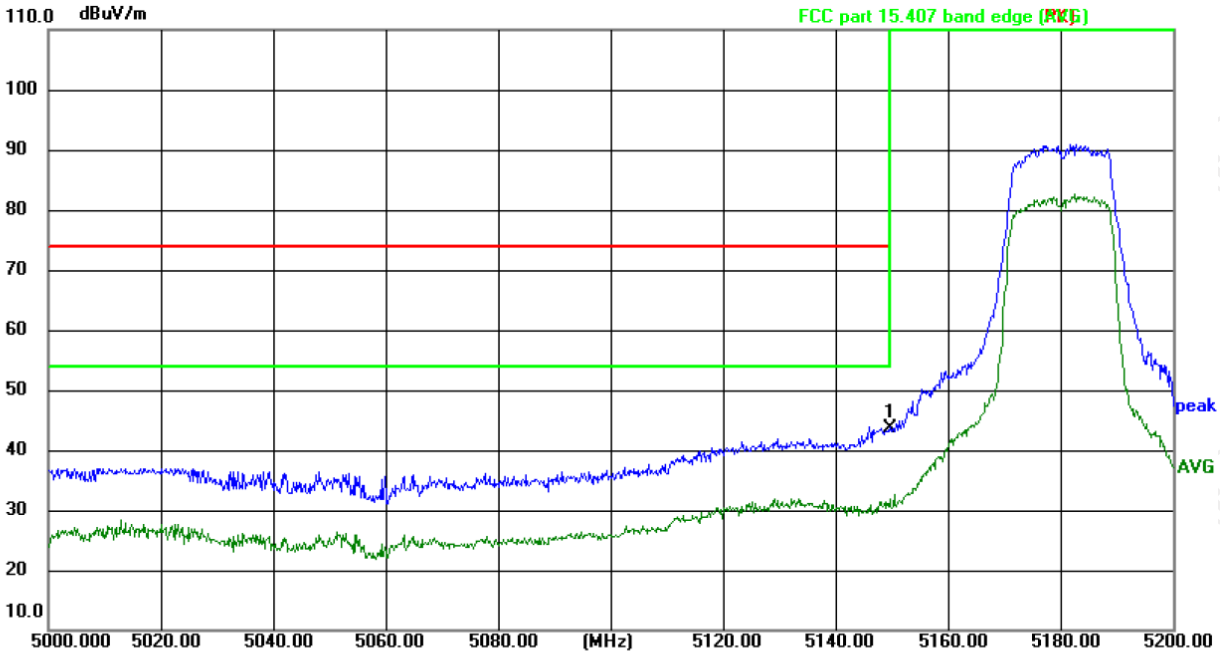
n20-5180



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	61.15	-9.24	51.91	74.00	-22.09	peak	P	

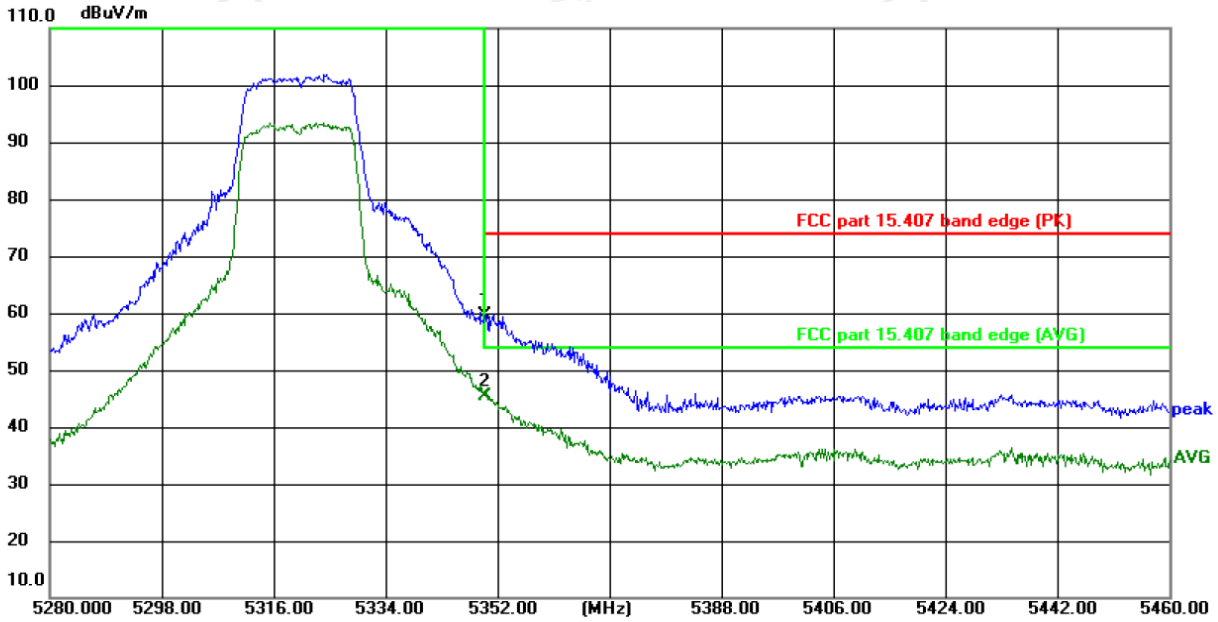


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	52.77	-9.24	43.53	74.00	-30.47	peak	P	

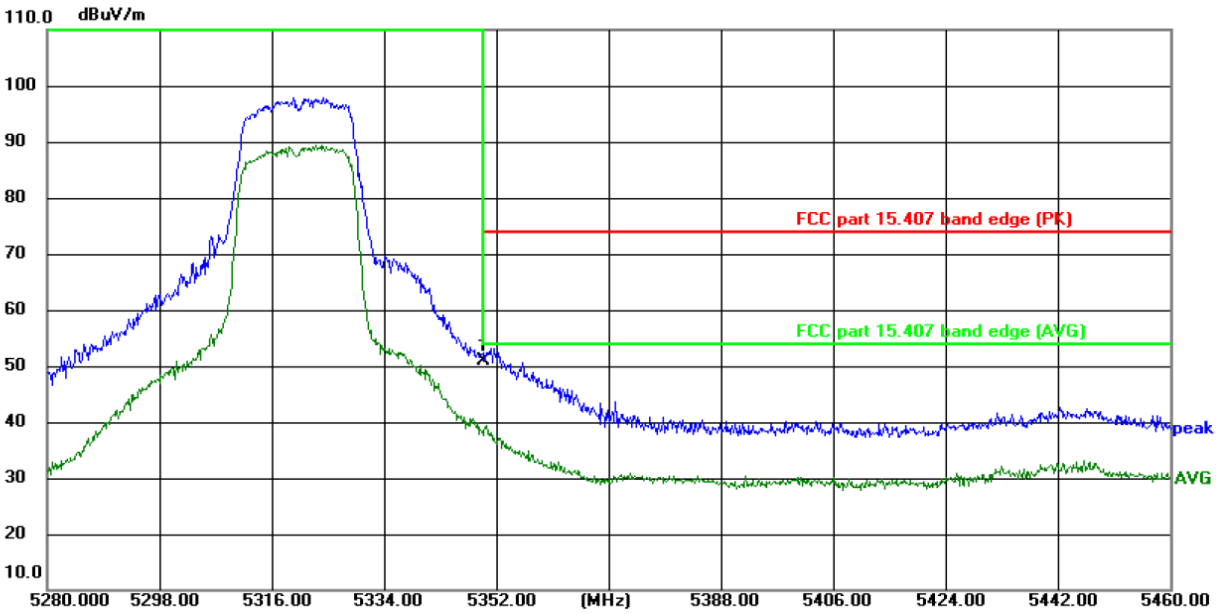
n20-5320



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	67.79	-8.15	59.64	74.00	-14.36	peak	P	
2 *	5350.000	53.46	-8.15	45.31	54.00	-8.69	AVG	P	

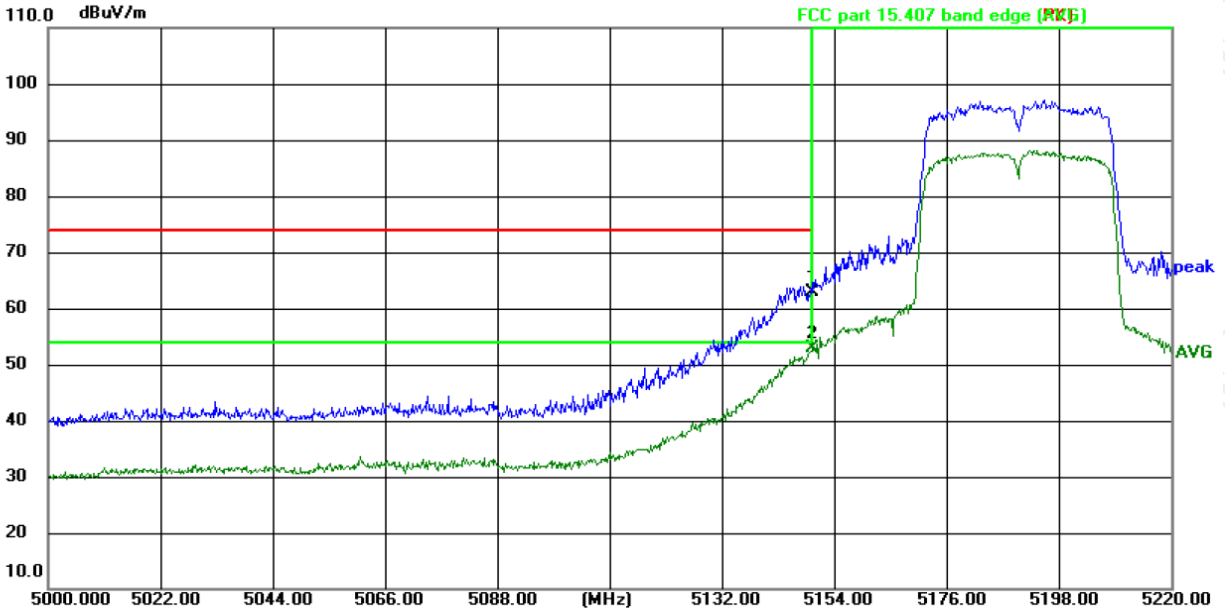


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5350.000	59.01	-8.15	50.86	74.00	-23.14	peak	P	

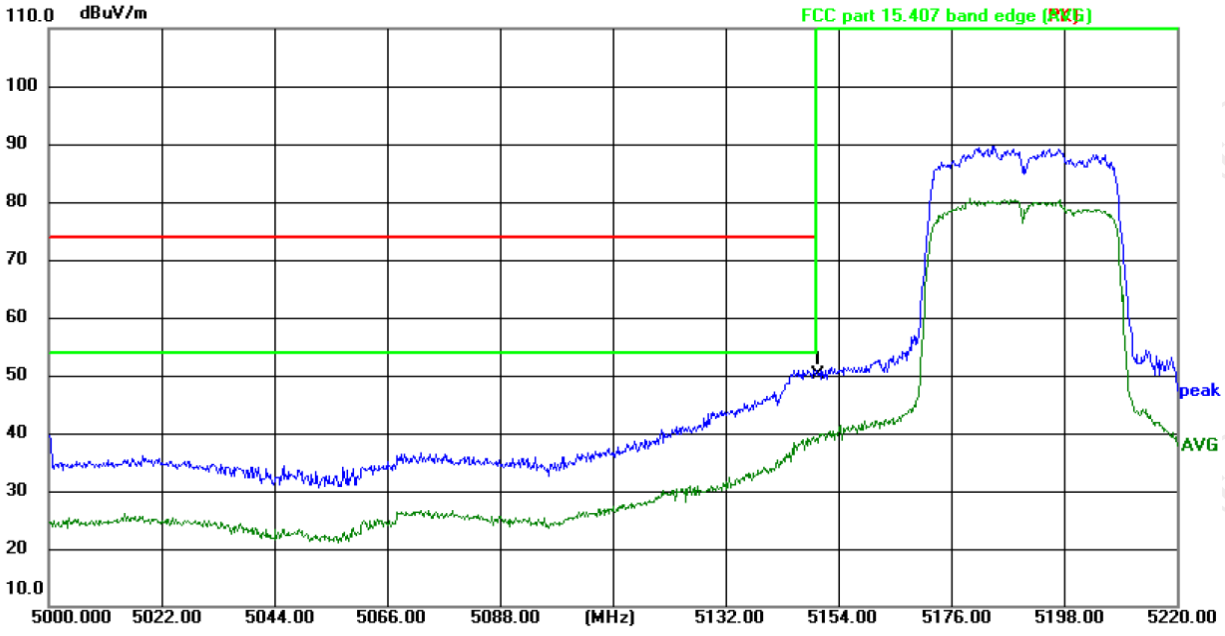
n40-5190



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	72.07	-9.24	62.83	74.00	-11.17	peak	P	
2 *	5150.000	62.16	-9.24	52.92	54.00	-1.08	AVG	P	

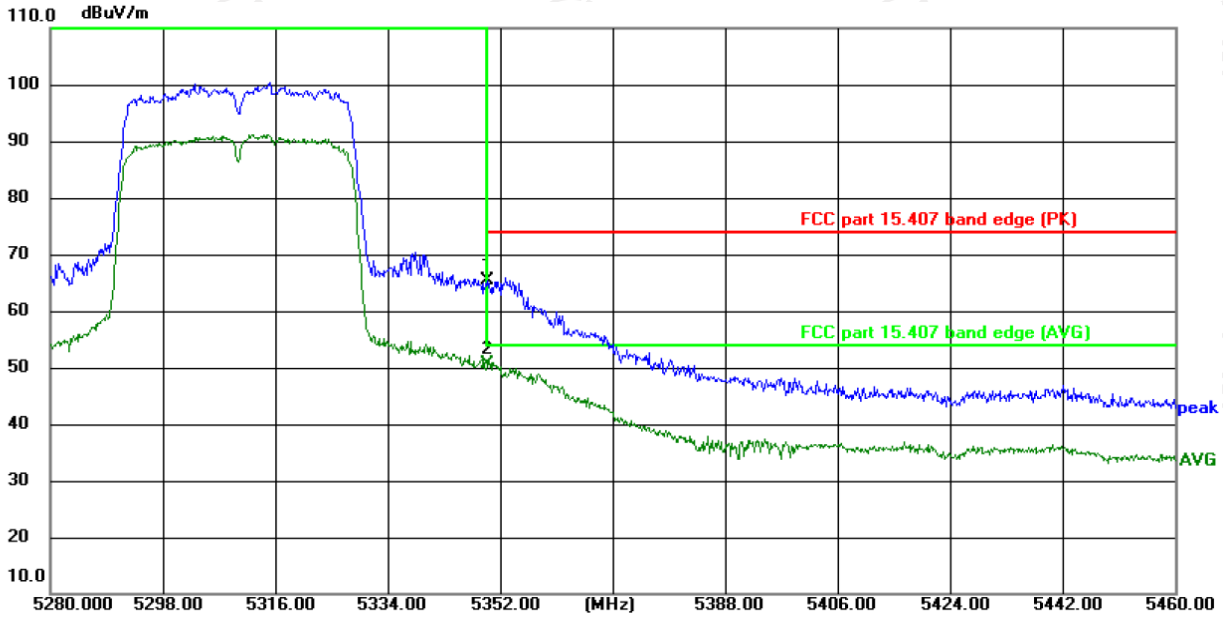


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	59.47	-9.24	50.23	74.00	-23.77	peak	P	

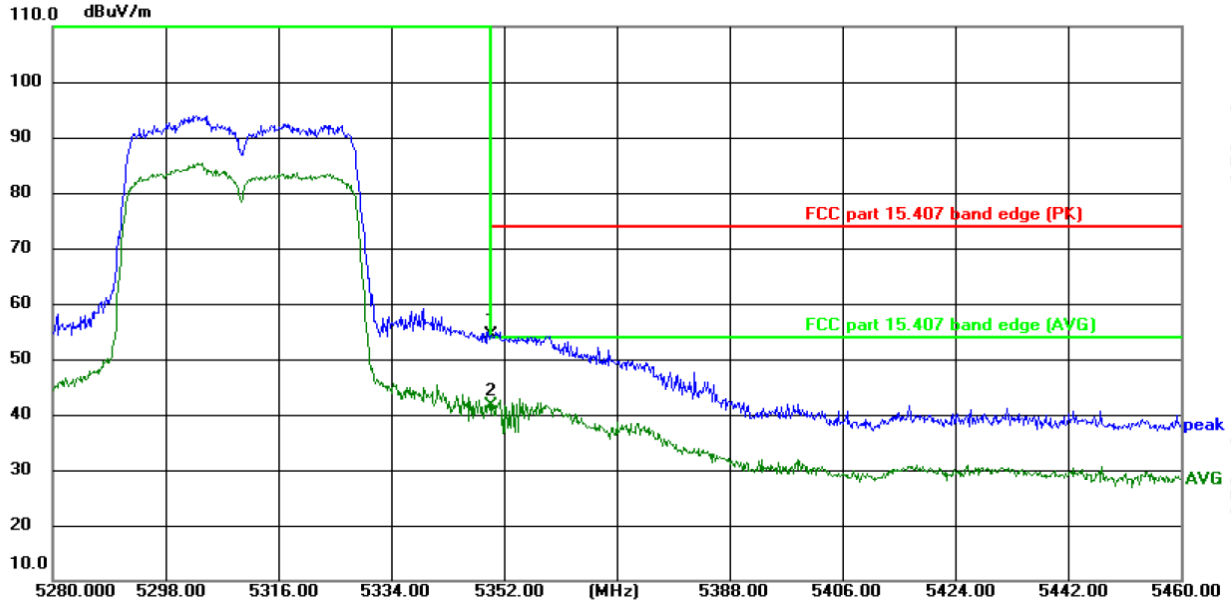
n40-5310



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	73.43	-8.15	65.28	74.00	-8.72	peak	P	
2 *	5350.000	58.78	-8.15	50.63	54.00	-3.37	AVG	P	

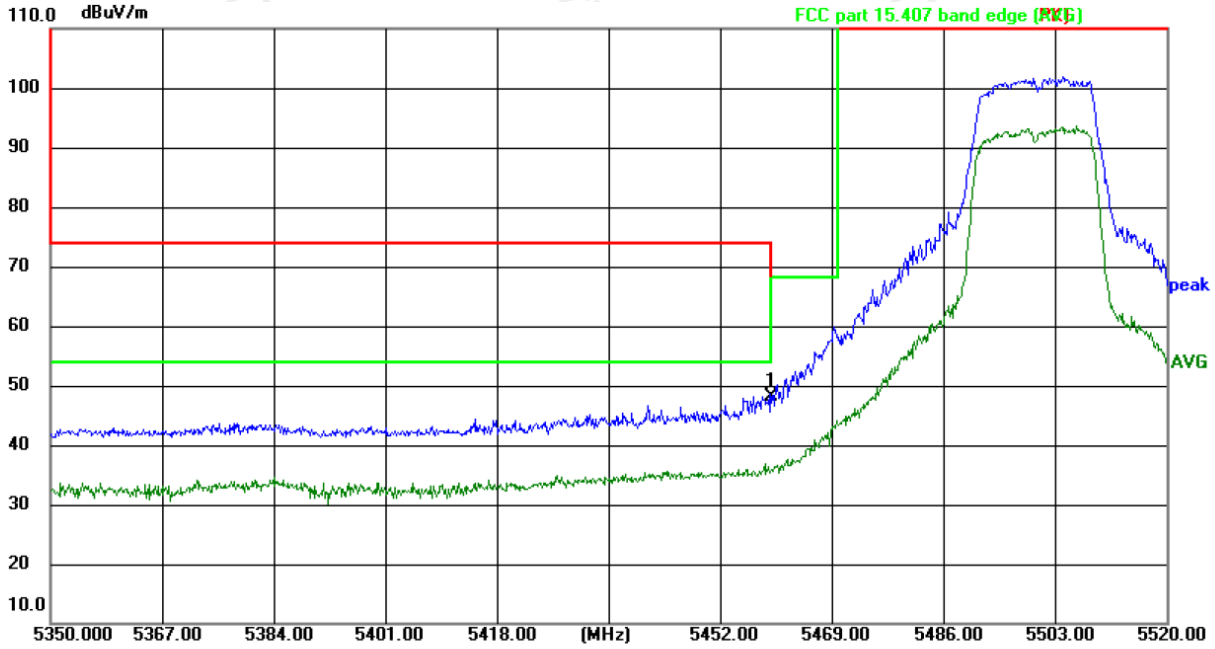


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	62.56	-8.15	54.41	74.00	-19.59	peak	P	
2 *	5350.000	49.75	-8.15	41.60	54.00	-12.40	AVG	P	

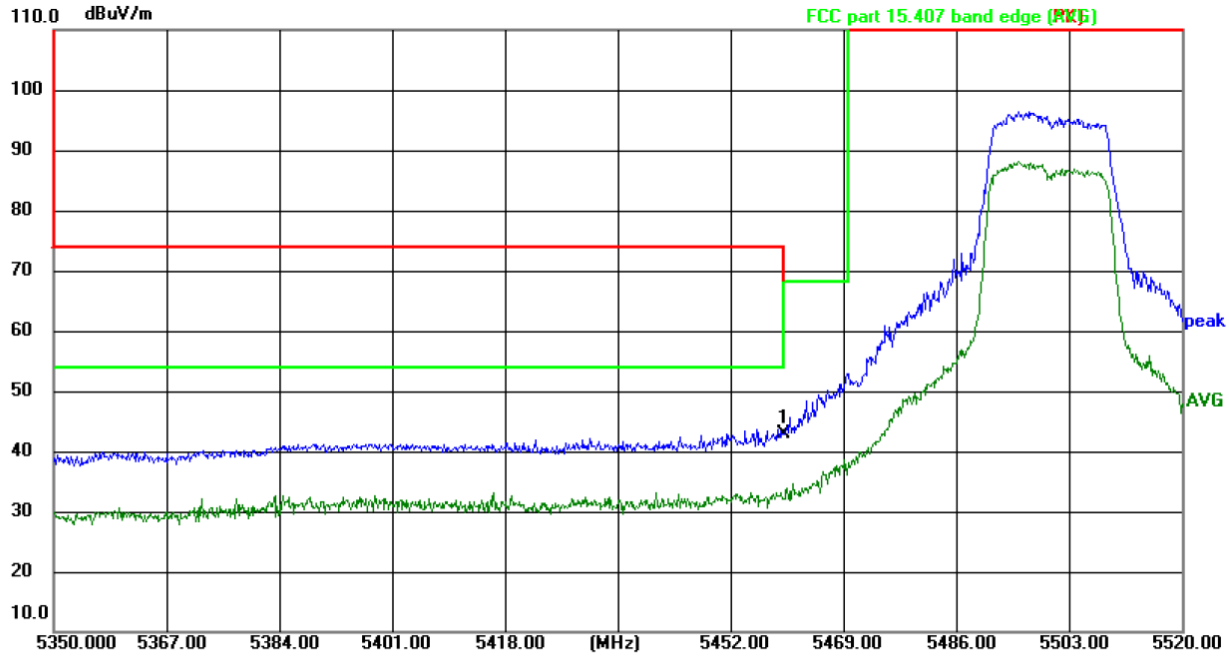
n20-5500



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5460.000	56.38	-8.20	48.18	68.20	-20.02	peak	P	

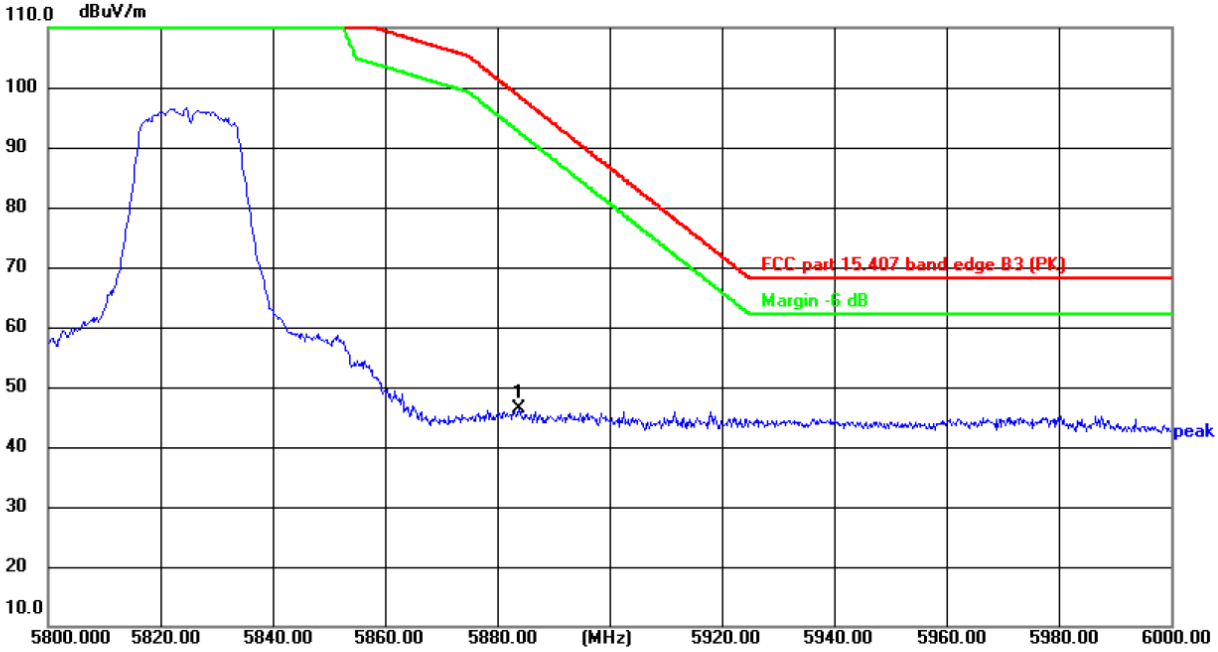


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5460.000	51.17	-8.20	42.97	68.20	-25.23	peak	P	

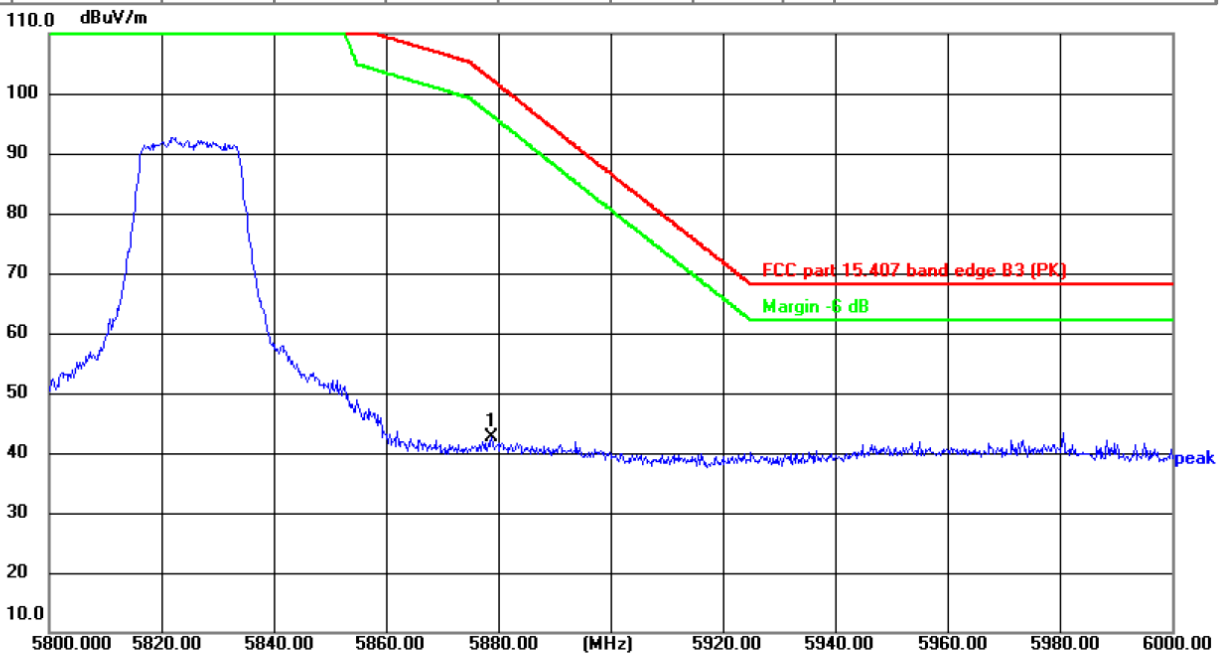
n20-5825



Site: 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5883.960	53.55	-7.05	46.50	98.57	-52.07	peak	P	

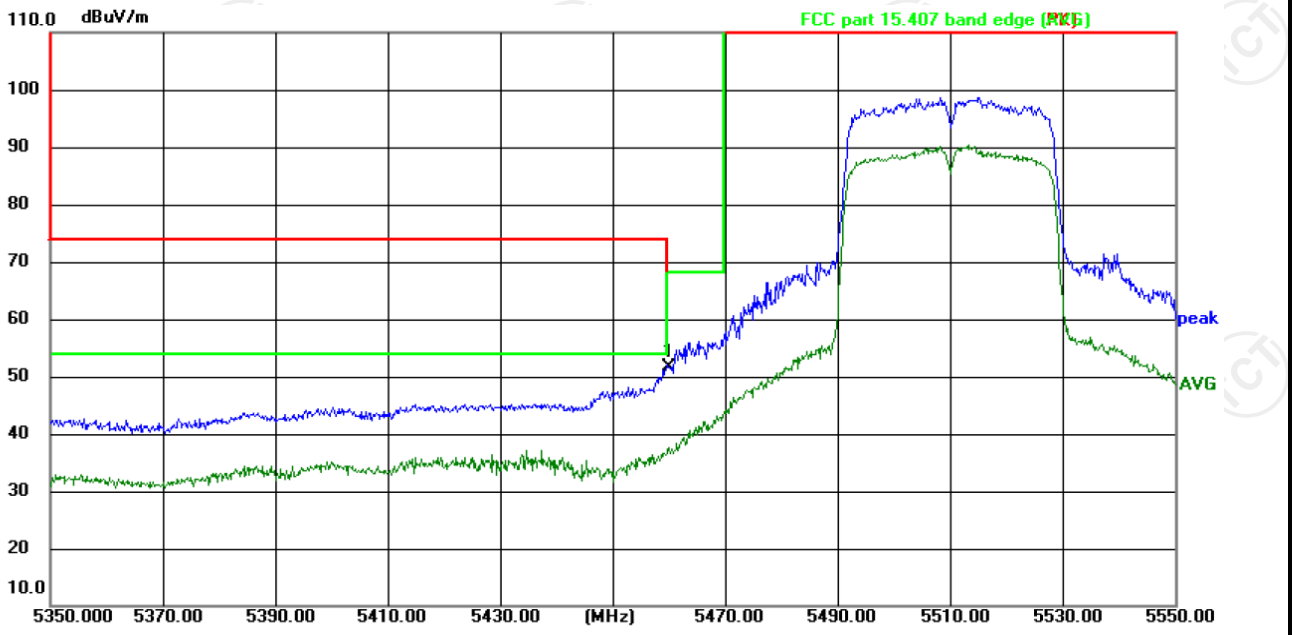


Site: 3m Anechoic Chamber Polarization: *Vertical* Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5878.840	49.73	-7.07	42.66	102.36	-59.70	peak	P	

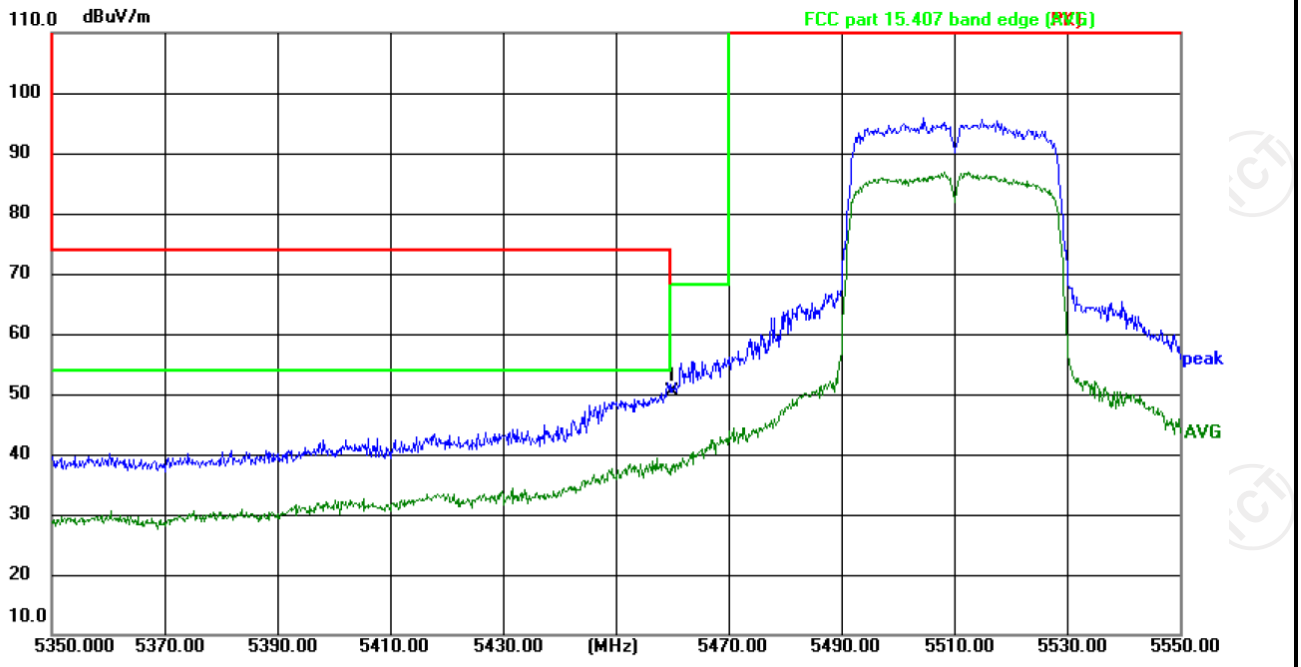
n40-5510



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5460.000	59.72	-8.20	51.52	68.20	-16.68	peak	P	

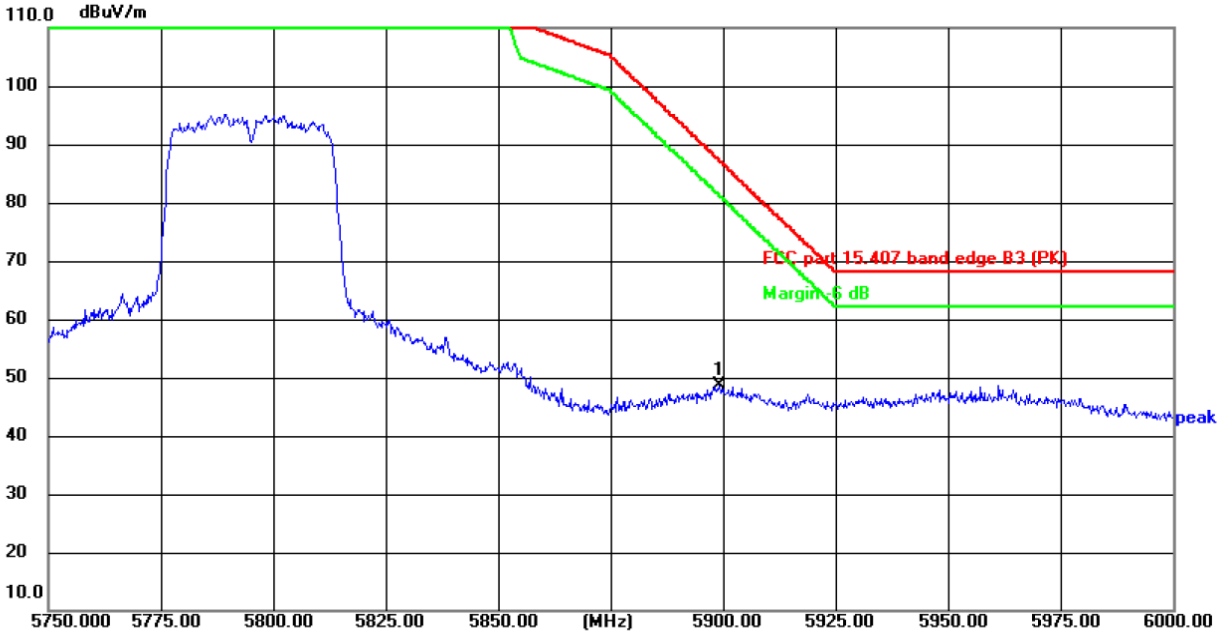


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5460.000	58.58	-8.20	50.38	68.20	-17.82	peak	P	

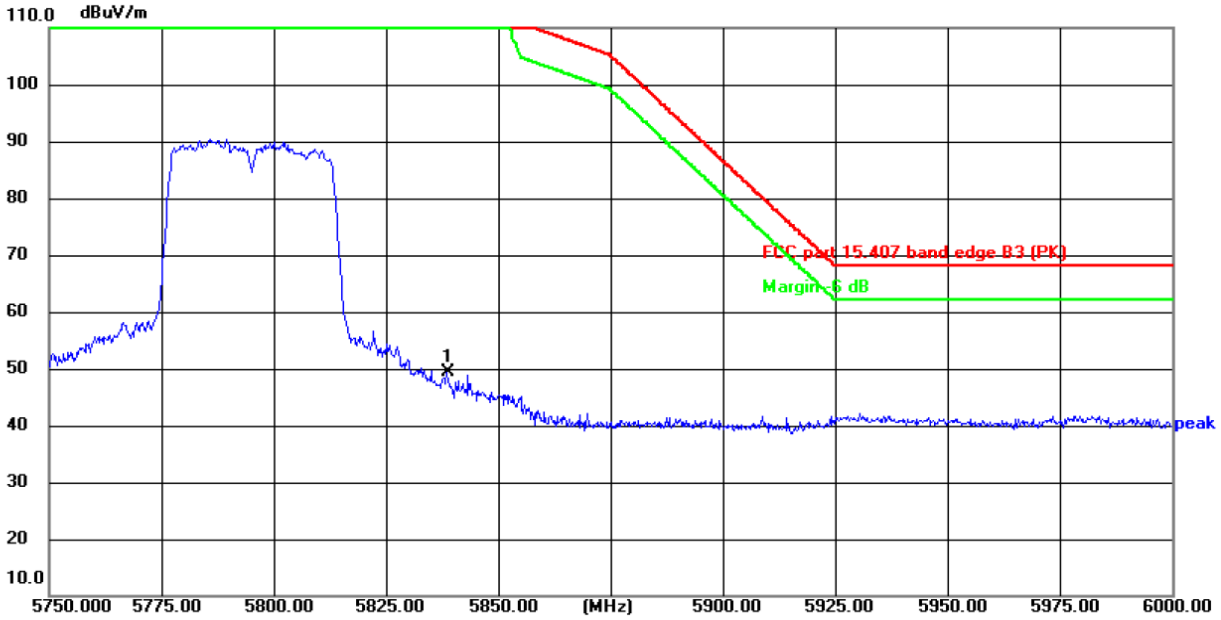
n40-5795



Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 23.3(℃) Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5899.200	55.61	-6.99	48.62	87.29	-38.67	peak	P	



Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.3(℃) Humidity: 52 %

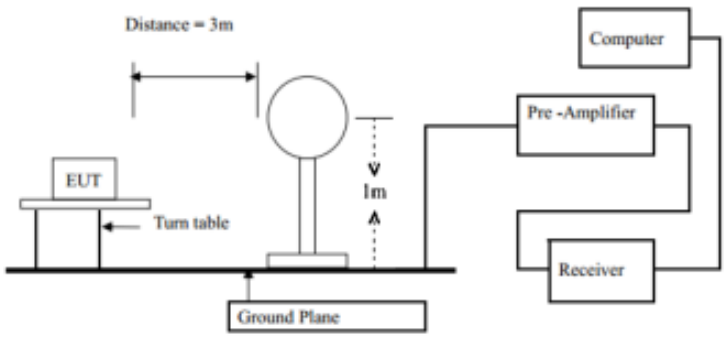
Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5838.525	56.51	-7.23	49.28	122.20	-72.92	peak	P	

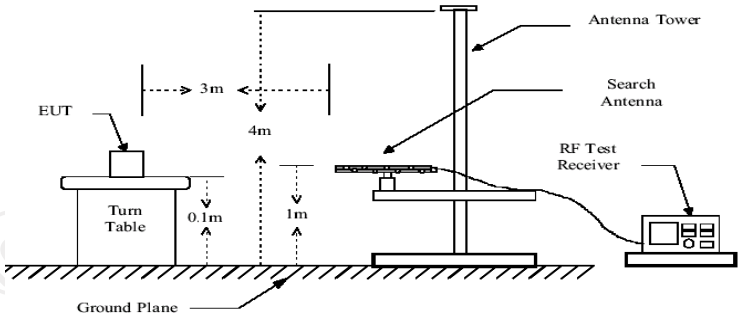
Note: *All modulation (802.11a, 802.11n) have been tested, only the worst case in 802.11n be reported.*

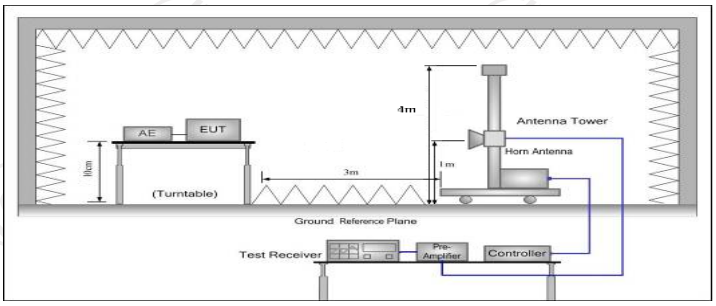
5.8. Unwanted Emissions

5.8.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205</td></tr>
<tr><td>Test Method:</td><td>KDB 789033 D02 v02r01</td></tr>
<tr><td>Frequency Range:</td><td>9kHz to 40GHz</td></tr>
<tr><td>Measurement Distance:</td><td>3 m</td></tr>
<tr><td>Antenna Polarization:</td><td>Horizontal & Vertical</td></tr>
<tr><td>Operation mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td>9kHz- 150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,
In restricted bands:
<table>
<tr><td>Frequency</td><td>Detector</td><td>Limit@3m</td></tr>
<tr><td rowspan="2">Above 1G</td><td>Peak</td><td>74dBμV/m</td></tr>
<tr><td>AVG</td><td>54dBμV/m</td></tr>
</table>
<table>
<tr><td>Frequency</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(KHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(KHz)</td><td>3</td></tr>
<tr><td>1.705-30</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100</td><td>3</td></tr>
<tr><td>88-216</td><td>150</td><td>3</td></tr>
<tr><td>216-960</td><td>200</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
In un-restricted bands: 68.2dBuV/m</td></tr>
<tr><td>Test setup:</td><td>For radiated emissions below 30MHz
 

30MHz to 1GHz</td></tr>
</table>

<table>
<tr><td></td><td> 

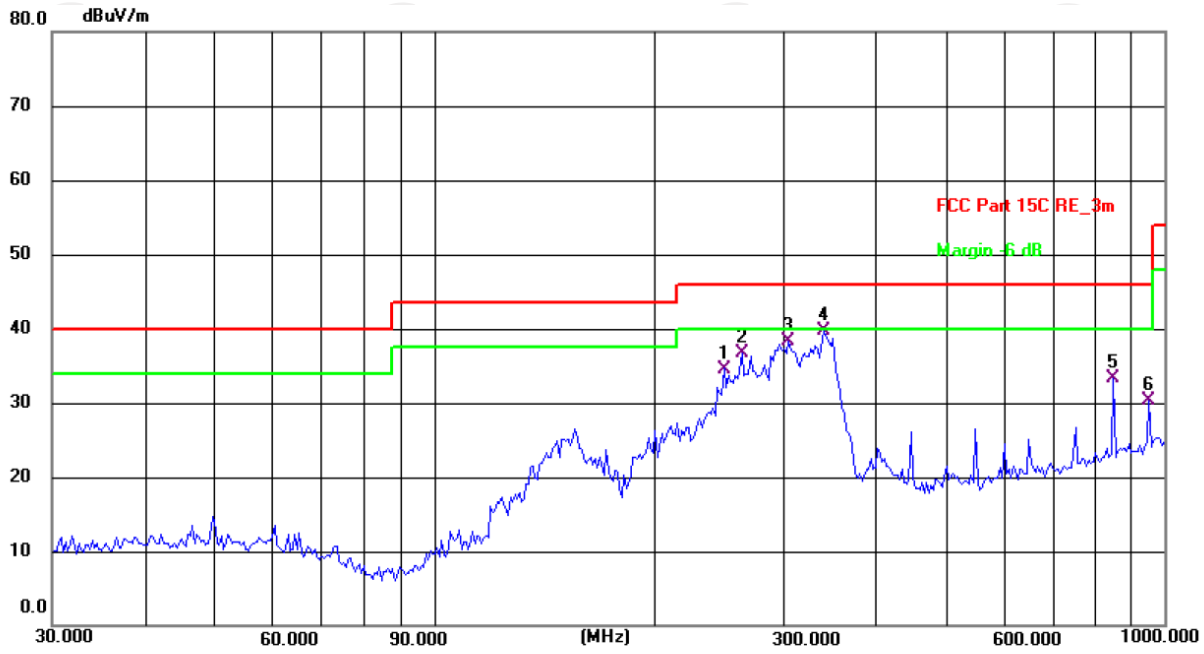
Above 1GHz

</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.1 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.</td></tr>
<tr><td>Test results:</td><td>PASS</td></tr>
</table>

5.8.2. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



Site: 3m Anechoic Chamber1 Polarization: ***Horizontal*** Temperature: 24.2(C) Humidity: 47 %

Limit: FCC Part 15C RE_3m Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	249.4250	48.17	-13.57	34.60	46.00	-11.40	QP	P	
2	263.8190	49.56	-12.85	36.71	46.00	-9.29	QP	P	
3	305.6800	49.22	-10.89	38.33	46.00	-7.67	QP	P	
4 *	341.9786	50.02	-10.23	39.79	46.00	-6.21	QP	P	
5	851.0353	35.48	-2.11	33.37	46.00	-12.63	QP	P	
6	952.0937	29.97	0.28	30.25	46.00	-15.75	QP	P	

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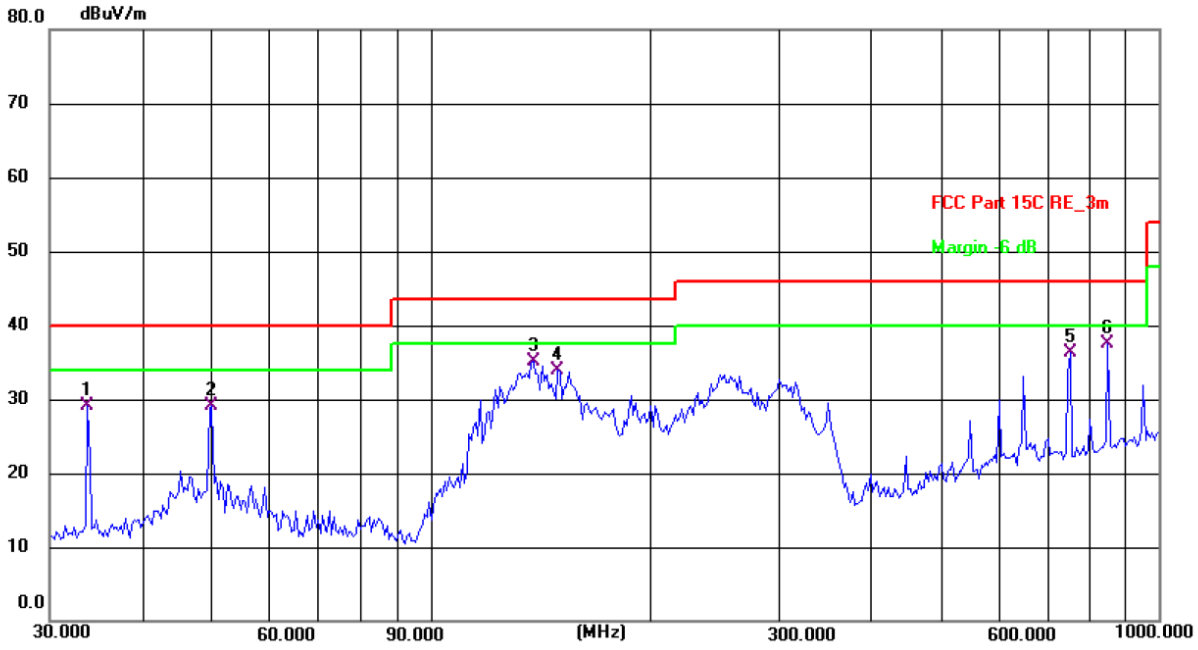
Vertical:



Site: 3m Anechoic Chamber1 Polarization: *Vertical* Temperature: 24.2(C) Humidity: 47 %

Limit: FCC Part 15C RE_3m Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	33.7986	41.61	-12.57	29.04	40.00	-10.96	QP	P	
2	50.0566	41.41	-12.28	29.13	40.00	-10.87	QP	P	
3 *	138.3873	47.31	-12.16	35.15	43.50	-8.35	QP	P	
4	149.4857	45.26	-11.38	33.88	43.50	-9.62	QP	P	
5	755.3873	39.86	-3.52	36.34	46.00	-9.66	QP	P	
6	851.0353	39.65	-2.11	37.54	46.00	-8.46	QP	P	

Note: *1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported*

2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40) and the worst case Mode (channel 120 and 802.11a) was submitted only.

3.Measurement (dBμV) = Reading level + Correction Factor, correction Factor= Antenna Factor + Cable loss – Pre-amplifier.

Modulation Type: Band 1									
11a CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10360	H	58.33	---	1.78	60.11	---	68.2	---	-8.09
15540	H	39.63	---	5.21	44.84	---	74	54	-9.16
---	H	---	---	---	---	---	---	---	---
10360	V	58.89	---	1.78	60.67	---	68.2	---	-7.53
15540	V	40.37	---	5.21	45.58	---	74	54	-8.42
---	V	---	---	---	---	----	---	---	---
11a CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10400	H	59.22	---	1.83	61.05	---	68.2	---	-7.15
15600	H	40.98	---	5.23	46.21	---	74	54	-7.79
---	H	---	---	---	---	---	---	---	---
10400	V	56.77	---	1.83	58.6	---	68.2	---	-9.6
15600	V	41.48	---	5.23	46.71	---	74	54	-7.29
---	V	---	---	---	---	----	---	---	---
11a CH48: 5240MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10480	H	58.22	---	1.85	60.07	---	68.2	---	-8.13
15720	H	39.43	---	5.25	44.68	---	74	54	-9.32
---	H	---	---	---	---	---	---	---	---
10480	V	58.01	---	1.85	59.86	---	68.2	---	-8.34
15720	V	40.33	---	5.25	45.58	---	74	54	-8.42
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10360	H	55.89	---	1.78	57.67	---	68.2	---	-10.53
15540	H	40.82	---	5.21	46.03	---	74	54	-7.97
---	H	---	---	---	---	---	---	---	---
10360	V	56.33	---	1.78	58.11	---	68.2	---	-10.09
15540	V	41.45	---	5.21	46.66	---	74	54	-7.34
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10400	H	55.39	---	1.83	57.22	---	68.2	---	-10.98
15600	H	41.05	---	5.23	46.28	---	74	54	-7.72
---	H	---	---	---	---	---	---	---	---
10400	V	56.25	---	1.83	58.08	---	68.2	---	-10.12
15600	V	39.77	---	5.23	45	---	74	54	-9
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH48: 5240MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10480	H	57.66	---	1.85	59.51	---	68.2	---	-8.69
15720	H	41.05	---	5.25	46.3	---	74	54	-7.7
---	H	---	---	---	---	---	---	---	---
10480	V	55.8	---	1.85	57.65	---	68.2	---	-10.55
15720	V	39.11	---	5.25	44.36	---	74	54	-9.64
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH38: 5190MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10380	H	56.2	---	1.80	58	---	68.2	---	-10.2
15570	H	41.33	---	5.22	46.55	---	74	54	-7.45
---	H	---	---	---	---	---	---	---	---
10380	V	57.22	---	1.80	59.02	---	68.2	---	-9.18
15570	V	39.33	---	5.22	44.55	---	74	54	-9.45
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH46: 5230MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10460	H	56.88	---	1.85	58.73	---	68.2	---	-9.47
15690	H	39.69	---	5.08	44.77	---	74	54	-9.23
---	H	---	---	---	---	---	---	---	---
10460	V	57.21	---	1.85	59.06	---	68.2	---	-9.14
15690	V	40.11	---	5.08	45.19	---	74	54	-8.81
---	V	---	---	---	---	----	---	---	---

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Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

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Modulation Type: Band 2A									
11a CH52: 5260MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10520	H	57.22	---	1.87	59.09	---	68.2	---	-9.11
15780	H	39.65	---	5.01	44.66	---	74	54	-9.34
---	H	---	---	---	---	---	---	---	---
10520	V	56.12	---	1.87	57.99	---	68.2	---	-10.21
15780	V	40.78	---	5.01	45.79	---	74	54	-8.21
---	V	---	---	---	---	----	---	---	---
11a CH60: 5300MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10600	H	42.88	---	1.89	44.77	---	74	54	-9.23
15900	H	40.33	---	4.93	45.26	---	74	54	-8.74
---	H	---	---	---	---	---	---	---	---
10600	V	42.13	---	1.89	44.02	---	74	54	-9.98
15900	V	41.63	---	4.93	46.56	---	74	54	-7.44
---	V	---	---	---	---	----	---	---	---
11a CH64: 5320MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10640	H	44.53	---	1.94	46.47	---	74	54	-7.53
15960	H	39.7	---	4.83	44.53	---	74	54	-9.47
---	H	---	---	---	---	---	---	---	---
10640	V	42.57	---	1.94	44.51	---	74	54	-9.49
15960	V	41.04	---	4.83	45.87	---	74	54	-8.13
---	V	---	---	---	---	----	---	---	---
11n(HT20) C52: 5260MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10520	H	56.78	---	1.87	58.65	---	68.2	---	-9.55
15780	H	40.96	---	5.01	45.97	---	74	54	-8.03
---	H	---	---	---	---	---	---	---	---
10520	V	58.59	---	1.87	60.46	---	68.2	---	-7.74
15780	V	39.31	---	5.01	44.32	---	74	54	-9.68
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH60: 5300MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10600	H	44.33	---	1.89	46.22	---	74	54	-7.78
15900	H	39.02	---	4.93	43.95	---	74	54	-10.05
---	H	---	---	---	---	---	---	---	---
10600	V	42.95	---	1.89	44.84	---	74	54	-9.16
15900	V	41.3	---	4.93	46.23	---	74	54	-7.77
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH64: 5320MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10640	H	43.22	---	1.94	45.16	---	74	54	-8.84
15960	H	42.07	---	4.83	46.9	---	74	54	-7.1
---	H	---	---	---	---	---	---	---	---
10640	V	44.33	---	1.94	46.27	---	74	54	-7.73
15960	V	40.88	---	4.83	45.71	---	74	54	-8.29
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH54: 5270MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10540	H	56.2	---	1.87	58.07	---	68.2	---	-10.13
15810	H	39.44	---	4.99	44.43	---	74	54	-9.57
---	H	---	---	---	---	---	---	---	---
10540	V	56.89	---	1.87	58.76	---	68.2	---	-9.44
15810	V	40.39	---	4.99	45.38	---	74	54	-8.62
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH62: 5310MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10620	H	42.42	---	1.92	44.34	---	74	54	-9.66
15930	H	40.04	---	4.88	44.92	---	74	54	-9.08
---	H	---	---	---	---	---	---	---	---
10620	V	43.59	---	1.92	45.51	---	74	54	-8.49
15930	V	39.11	---	4.88	43.99	---	74	54	-10.01
---	V	---	---	---	---	----	---	---	---

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Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

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Modulation Type: Band 2C									
11a CH100: 5500MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11000	H	44.33	---	2.21	46.54	---	74	54	-7.46
16500	H	55.21	---	5.32	60.53	---	68.2	---	-7.67
---	H	---	---	---	---	---	---	---	---
11000	V	43.98	---	2.21	46.19	---	74	54	-7.81
16500	V	52.73	---	5.32	58.05	---	68.2	---	-10.15
---	V	---	---	---	---	----	---	---	---
11a CH120: 5600MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11200	H	43.19	---	2.34	45.53	---	74	54	-8.47
16800	H	52.75	---	5.62	58.37	---	68.2	---	-9.83
---	H	---	---	---	---	---	---	---	---
11200	V	43.12	---	2.34	45.46	---	74	54	-8.54
16800	V	53.01	---	5.62	58.63	---	68.2	---	-9.57
---	V	---	---	---	---	----	---	---	---
11a CH140: 5700MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11400	H	42.66	---	2.47	45.13	---	74	54	-8.87
17100	H	52.98	---	6.00	58.98	---	68.2	---	-9.22
---	H	---	---	---	---	---	---	---	---
11400	V	43.99	---	2.47	46.46	---	74	54	-7.54
17100	V	52.77	---	6.00	58.77	---	68.2	---	-9.43
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH100: 5500MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11000	H	45.02	---	2.21	47.23	---	74	54	-6.77
16500	H	53.03	---	5.32	58.35	---	68.2	---	-9.85
---	H	---	---	---	---	---	---	---	---
11000	V	42.55	---	2.21	44.76	---	74	54	-9.24
16500	V	53.99	---	5.32	59.31	---	68.2	---	-8.89
---	V	---	---	---	---	----	---	---	---

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11n(HT20) CH120: 5600MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11200	H	45.3	---	2.34	47.64	---	74	54	-6.36
16800	H	53.36	---	5.62	58.98	---	68.2	---	-9.22
---	H	---	---	---	---	---	---	---	---
11200	V	44.96	---	2.34	47.3	---	74	54	-6.7
16800	V	52.76	---	5.62	58.38	---	68.2	---	-9.82
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH140: 5700MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11400	H	44.36	---	2.47	46.83	---	74	54	-7.17
17100	H	52.23	---	6.00	58.23	---	68.2	---	-9.97
---	H	---	---	---	---	---	---	---	---
11400	V	44.3	---	2.47	46.77	---	74	54	-7.23
17100	V	52.01	---	6.00	58.01	---	68.2	---	-10.19
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH102: 5510MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11020	H	45.89	---	2.21	48.1	---	74	54	-5.9
16530	H	53.27	---	5.34	58.61	---	68.2	---	-9.59
---	H	---	---	---	---	---	---	---	---
11020	V	44.99	---	2.21	47.2	---	74	54	-6.8
16530	V	52.12	---	5.34	57.46	---	68.2	---	-10.74
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH118: 5590MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11180	H	44.33	---	2.32	46.65	---	74	54	-7.35
16770	H	53.69	---	5.60	59.29	---	68.2	---	-8.91
---	H	---	---	---	---	---	---	---	---
11180	V	44.5	---	2.32	46.82	---	74	54	-7.18
16770	V	52.89	---	5.60	58.49	---	68.2	---	-9.71
---	V	---	---	---	---	----	---	---	---

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11n(HT40) CH134: 5670MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
11340	H	44.71	---	2.40	47.11	---	74	54	-6.89
17010	H	53.06	---	5.96	59.02	---	68.2	---	-9.18
---	H	---	---	---	---	---	---	---	---
11340	V	42.55	---	2.40	44.95	---	74	54	-9.05
17010	V	51.59	---	5.96	57.55	---	68.2	---	-10.65
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

Modulation Type: Band 3									
11a CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	44.36	---	2.48	46.84	---	74	54	-7.16
17235	H	52.06	---	6.50	58.56	---	68.2	---	-9.64
---	H	---	---	---	---	---	---	---	---
11490	V	45.66	---	2.48	48.14	---	74	54	-5.86
17235	V	51.02	---	6.50	57.52	---	68.2	---	-10.68
---	V	---	---	---	---	----	---	---	---
11a CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	43.06	---	2.42	45.48	---	74	54	-8.52
17355	H	51.02	---	7.03	58.05	---	68.2	---	-10.15
---	H	---	---	---	---	---	---	---	---
11570	V	43.05	---	2.42	45.47	---	74	54	-8.53
17355	V	53.26	---	7.03	60.29	---	68.2	---	-7.91
---	V	---	---	---	---	----	---	---	---
11a CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	43.02	---	2.41	45.43	---	74	54	-8.57
17475	H	52.89	---	7.41	60.3	---	68.2	---	-7.9
---	H	---	---	---	---	---	---	---	---
11650	V	42.04	---	2.41	44.45	---	74	54	-9.55
17475	V	51.05	---	7.41	58.46	---	68.2	---	-9.74
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	44.63	---	2.48	47.11	---	74	54	-6.89
17235	H	52.09	---	6.50	58.59	---	68.2	---	-9.61
---	H	---	---	---	---	---	---	---	---
11490	V	44.41	---	2.48	46.89	---	74	54	-7.11
17235	V	51.89	---	6.50	58.39	---	68.2	---	-9.81
---	V	---	---	---	---	----	---	---	---

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11n(HT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	44.07	---	2.42	46.49	---	74	54	-7.51
17355	H	50.33	---	7.03	57.36	---	68.2	---	-10.84
---	H	---	---	---	---	---	---	---	---
11570	V	44.36	---	2.42	46.78	---	74	54	-7.22
17355	V	51.04	---	7.03	58.07	---	68.2	---	-10.13
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	43.69	---	2.41	46.1	---	74	54	-7.9
17475	H	53.66	---	7.41	61.07	---	68.2	---	-7.13
---	H	---	---	---	---	---	---	---	---
11650	V	45.01	---	2.41	47.42	---	74	54	-6.58
17475	V	52.03	---	7.41	59.44	---	68.2	---	-8.76
---	V	---	---	---	---	----	---	---	---
11n(HT40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11510	H	43.38	---	2.47	45.85	---	74	54	-8.15
17265	H	53.2	---	6.62	59.82	---	68.2	---	-8.38
---	H	---	---	---	---	---	---	---	---
11510	V	44.14	---	2.47	46.61	---	74	54	-7.39
17265	V	52.09	---	6.62	58.71	---	68.2	---	-9.49
---	V	---	---	---	---	----	---	---	---
11n(HT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11590	H	44.58	---	2.40	46.98	---	74	54	-7.02
17385	H	52.06	---	7.15	59.21	---	68.2	---	-8.99
---	H	---	---	---	---	---	---	---	---
11590	V	44.99	---	2.40	47.39	---	74	54	-6.61
17385	V	52.07	---	7.15	59.22	---	68.2	---	-8.98
---	V	---	---	---	---	----	---	---	---

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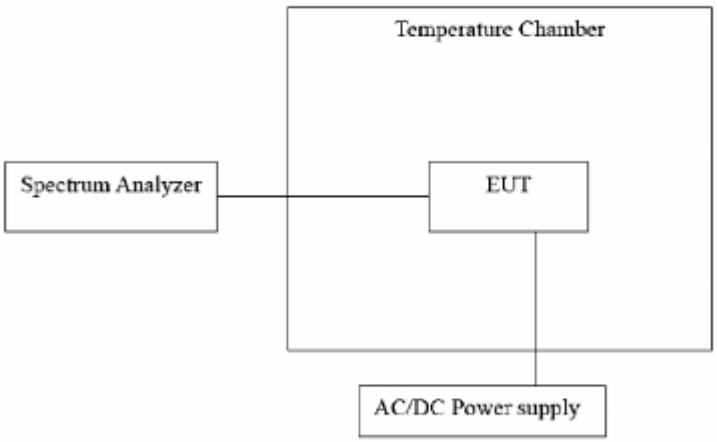
Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2020
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at all models(11a,11n), the worst case (11n) was found and test data was shown in this report.

5.9.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
DC power supply	Kingrang	KR3005K	/	Jun. 27, 2024	Jun. 26, 2025
Programable tempratuce and humidity chamber	JQ	JQ-2000	510101234	Jun. 27, 2024	Jun. 26, 2025

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Test plots as follows:

Test mode:	802.11n(HT20)	Frequency(MHz):	5180

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5180	0	PASS
35		5180	0	PASS
25		5180	0	PASS
15		5179.98	-20000	PASS
5		5180	0	PASS
0		5179.98	-20000	PASS
25	4.25V	5180	0	PASS
	5V	5180	0	PASS
	5.75V	5180.02	20000	PASS

Test mode:	802.11n(HT20)	Frequency(MHz):	5200

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5200	0	PASS
35		5200	0	PASS
25		5200	0	PASS
15		5200	0	PASS
5		5200	0	PASS
0		5199.98	-20000	PASS
25	4.25V	5200	0	PASS
	5V	5199.98	-20000	PASS
	5.75V	5200	0	PASS

Test mode:	802.11n(HT20)	Frequency(MHz):	5240

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5240	0	PASS
35		5240	0	PASS
25		5240	0	PASS
15		5240	0	PASS
5		5240	0	PASS
0		5240	0	PASS
25	4.25V	5239.98	-20000	PASS
	5V	5240	0	PASS
	5.75V	5240	0	PASS

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Test mode:	802.11n(HT20)	Frequency(MHz):	5745

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5745	0	PASS
35		5745	0	PASS
25		5745	0	PASS
15		5745	0	PASS
5		5745.02	20000	PASS
0		5745	0	PASS
25	4.25V	5745	0	PASS
	5V	5745	0	PASS
	5.75V	5745	0	PASS

Test mode:	802.11n(HT20)	Frequency(MHz):	5785

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5785	0	PASS
35		5785.02	20000	PASS
25		5785	0	PASS
15		5785.02	20000	PASS
5		5784.98	-20000	PASS
0		5785.02	20000	PASS
25	4.25V	5785	0	PASS
	5V	5785	0	PASS
	5.75V	5784.98	-20000	PASS

Test mode:	802.11n(HT20)	Frequency(MHz):	5825

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5824.98	-20000	PASS
35		5825	0	PASS
25		5825	0	PASS
15		5824.98	-20000	PASS
5		5825	0	PASS
0		5825	0	PASS
25	4.25V	5785.02	20000	PASS
	5V	5825	0	PASS
	5.75V	5824.98	-20000	PASS

Test mode:	802.11n(HT40)	Frequency(MHz):	5190

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5190	0	PASS
35		5190	0	PASS
25		5190	0	PASS
15		5190	0	PASS
5		5190	0	PASS
0		5190	0	PASS
25	4.25V	5190	0	PASS
	5V	5190	0	PASS
	5.75V	5190	0	PASS

Test mode:	802.11n(HT40)	Frequency(MHz):	5230

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5230	0	PASS
35		5230	0	PASS
25		5230	0	PASS
15		5230	0	PASS
5		5230	0	PASS
0		5230	0	PASS
25	4.25V	5230	0	PASS
	5V	5230	0	PASS
	5.75V	5230	0	PASS

Test mode:	802.11n(HT40)	Frequency(MHz):	5755

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5755	0	PASS
35		5755	0	PASS
25		5755	0	PASS
15		5755	0	PASS
5		5755	0	PASS
0		5755	0	PASS
25	4.25V	5755	0	PASS
	5V	5755	0	PASS
	5.75V	5755	0	PASS

Test mode:	802.11n(HT40)	Frequency(MHz):	5795

Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5795	0	PASS
35		5795	0	PASS
25		5795	0	PASS
15		5795	0	PASS
5		5795	0	PASS
0		5795	0	PASS
25	4.25V	5795	0	PASS
	5V	5795	0	PASS
	5.75V	5795	0	PASS

Appendix A: Test Result of Conducted Test

Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)
NVNT	a	5180	99.2
NVNT	a	5200	99.4
NVNT	a	5240	99.6
NVNT	n20	5180	99.4
NVNT	n20	5200	99.7
NVNT	n20	5240	99.7
NVNT	n40	5190	99.7
NVNT	n40	5230	99.6
NVNT	a	5260	98.88
NVNT	a	5300	98.72
NVNT	a	5320	99.25
NVNT	n20	5260	98.97
NVNT	n20	5300	99.35
NVNT	n20	5320	98.89
NVNT	n40	5270	98.92
NVNT	n40	5310	99.47
NVNT	a	5500	99.27
NVNT	a	5580	99.25
NVNT	a	5600	99.29
NVNT	a	5700	98.85
NVNT	n20	5500	99.39
NVNT	n20	5580	99.46
NVNT	n20	5600	98.95
NVNT	n20	5700	98.98
NVNT	n40	5510	99.02
NVNT	n40	5590	98.92
NVNT	n40	5670	99.03
NVNT	a	5745	99.5
NVNT	a	5785	99.7
NVNT	a	5825	99.4
NVNT	n20	5745	99.7
NVNT	n20	5785	99.7
NVNT	n20	5825	99.4
NVNT	n40	5755	99.7
NVNT	n40	5795	99.7

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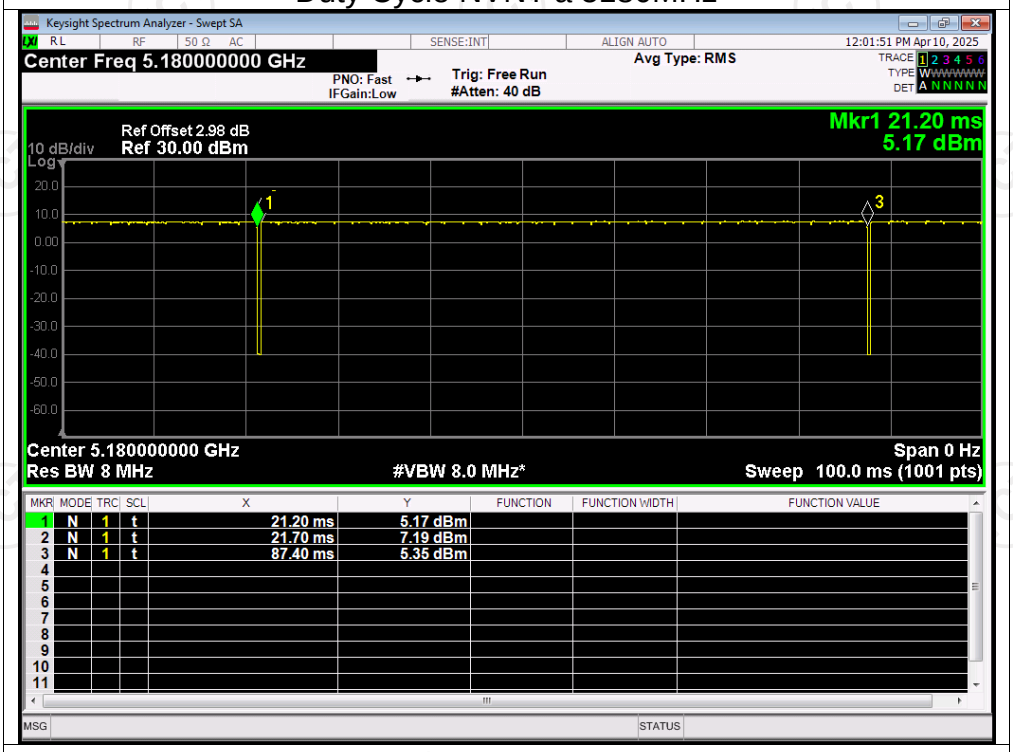
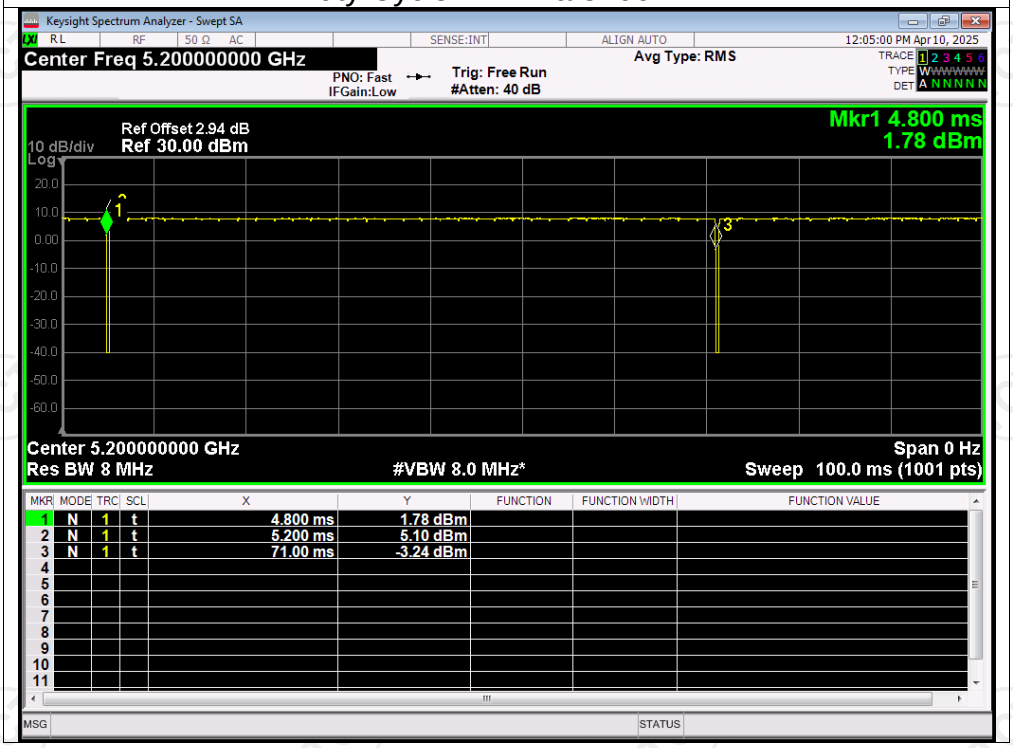
Test Graphs

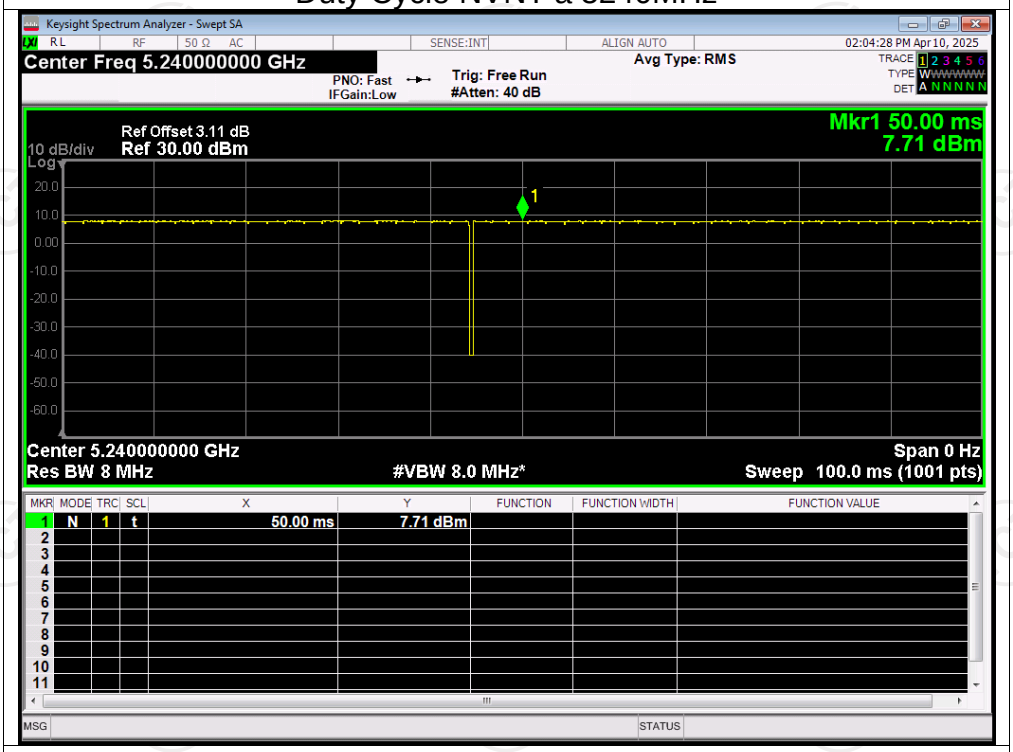
Duty Cycle NVNT a 5180MHz



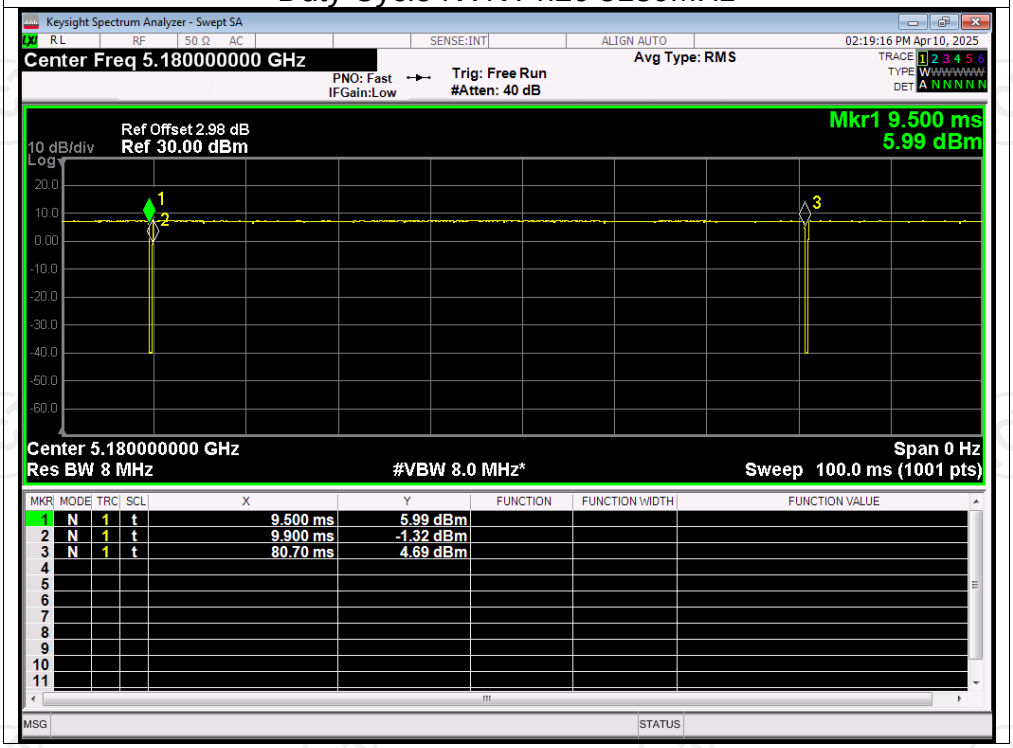
Duty Cycle NVNT a 5200MHz



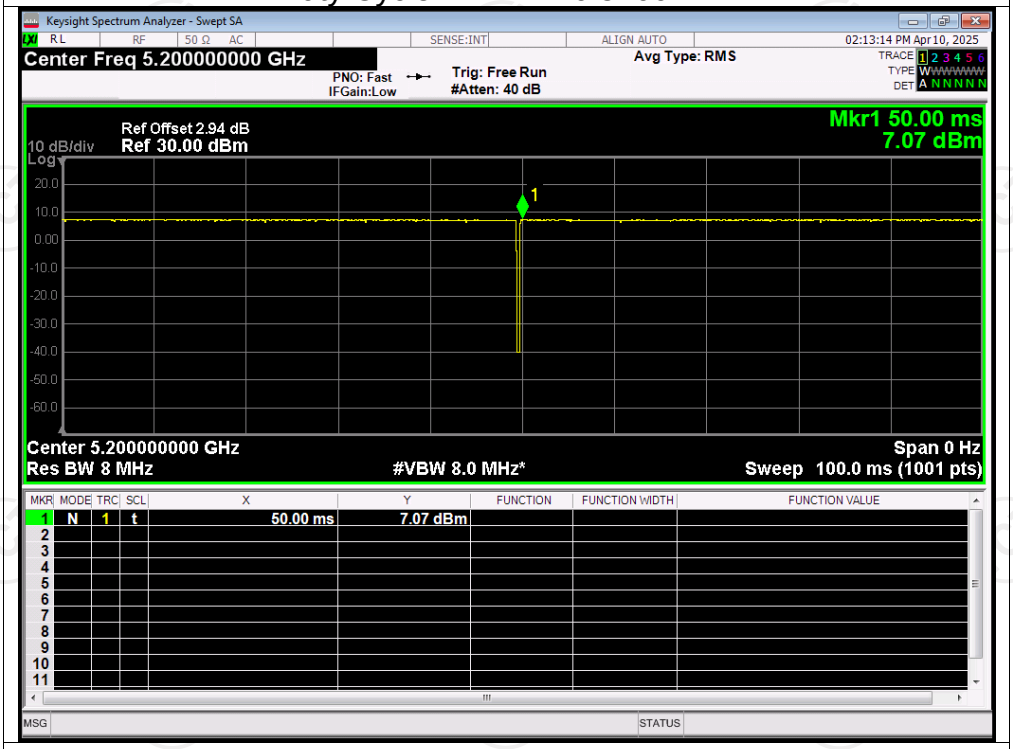
Duty Cycle NVNT a 5240MHz



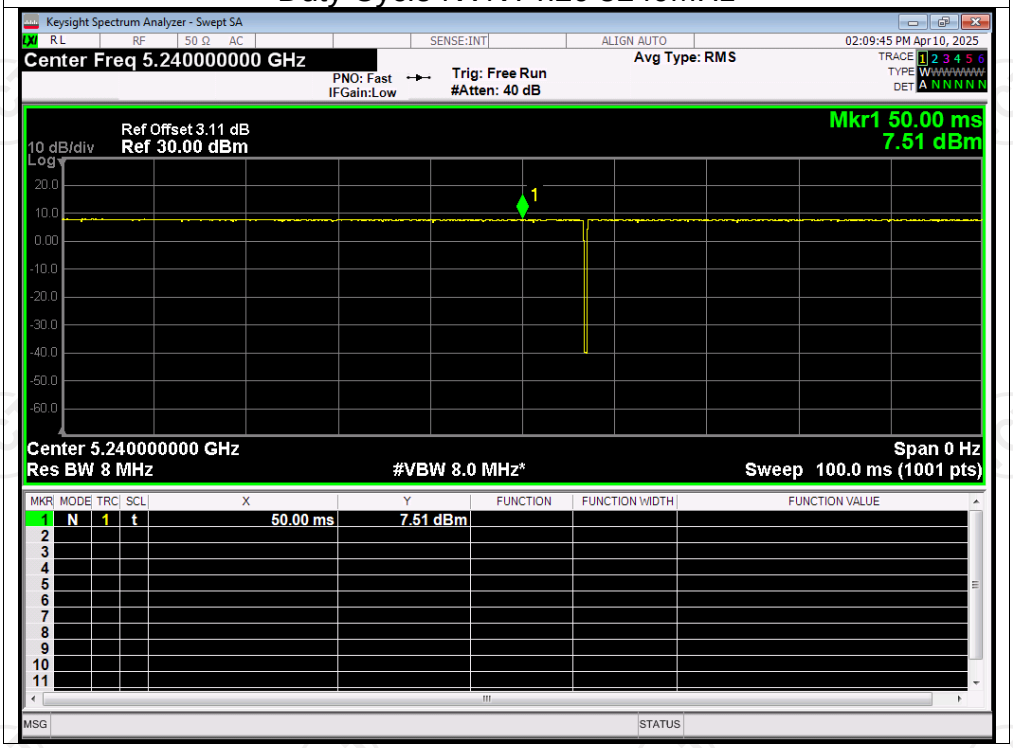
Duty Cycle NVNT n20 5180MHz



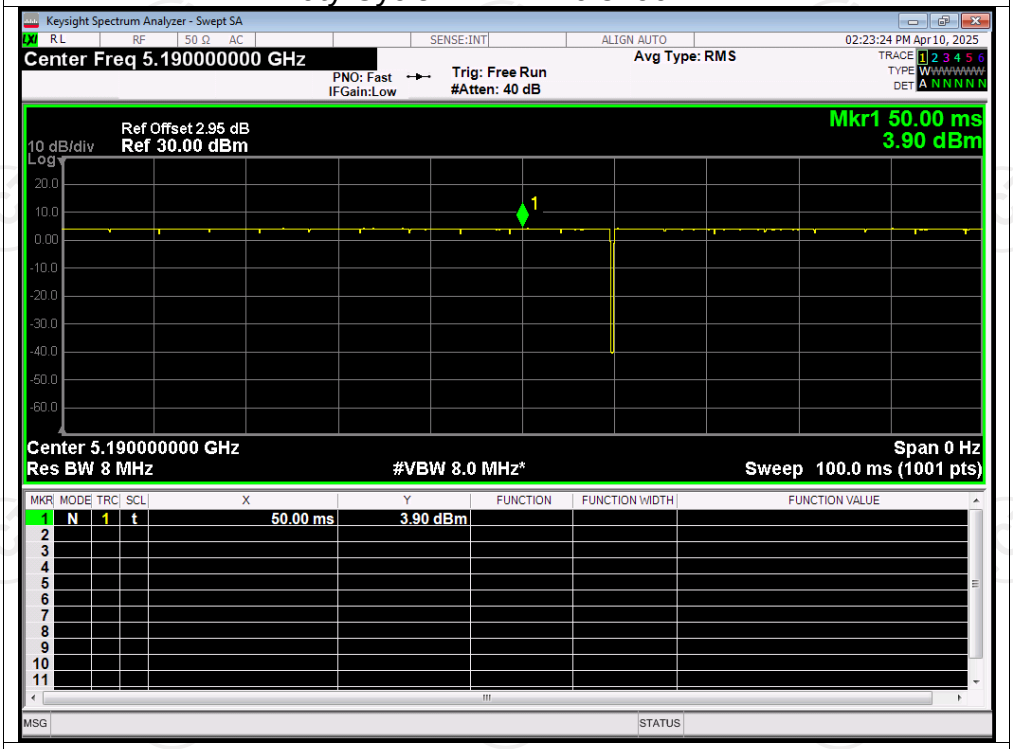
Duty Cycle NVNT n20 5200MHz



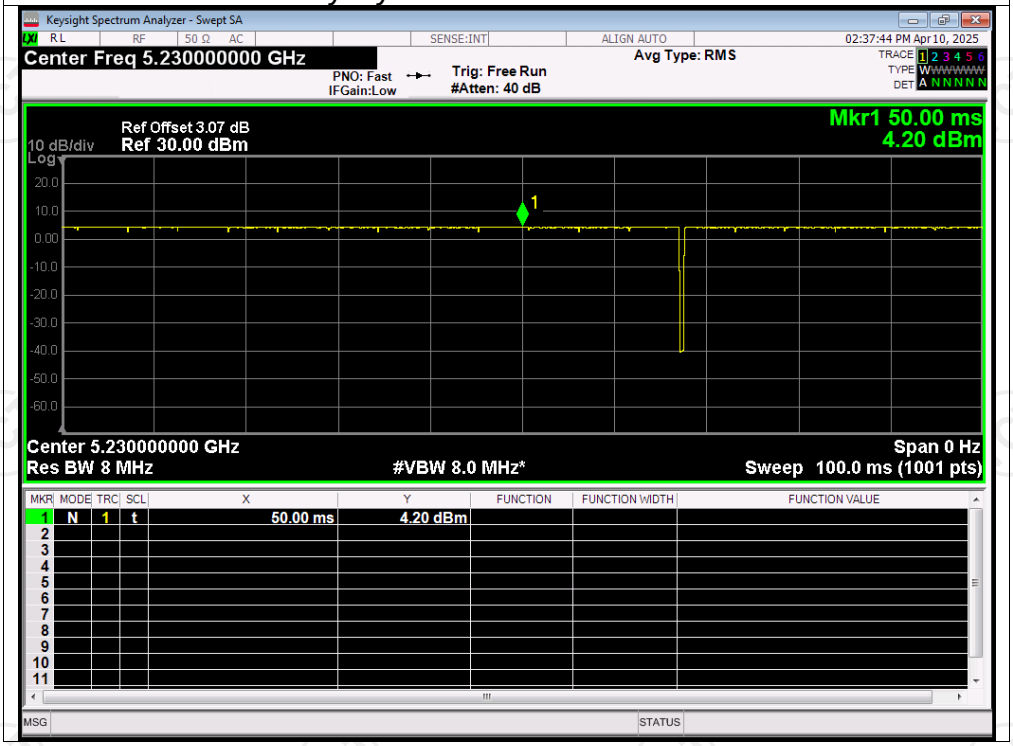
Duty Cycle NVNT n20 5240MHz



Duty Cycle NVNT n40 5190MHz

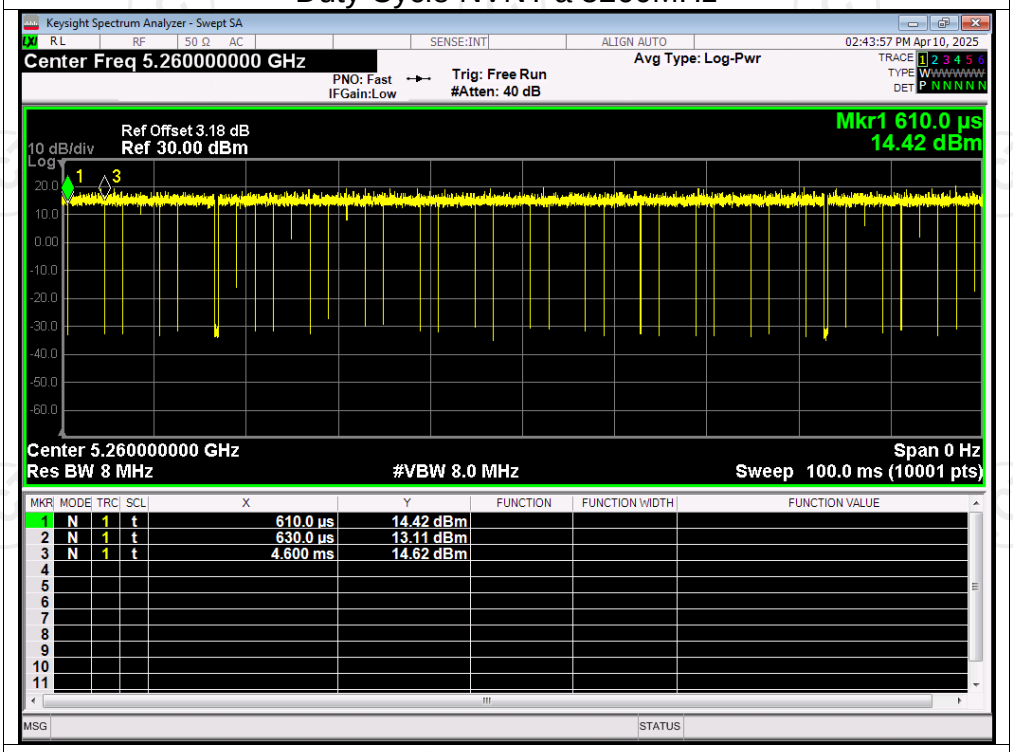


Duty Cycle NVNT n40 5230MHz

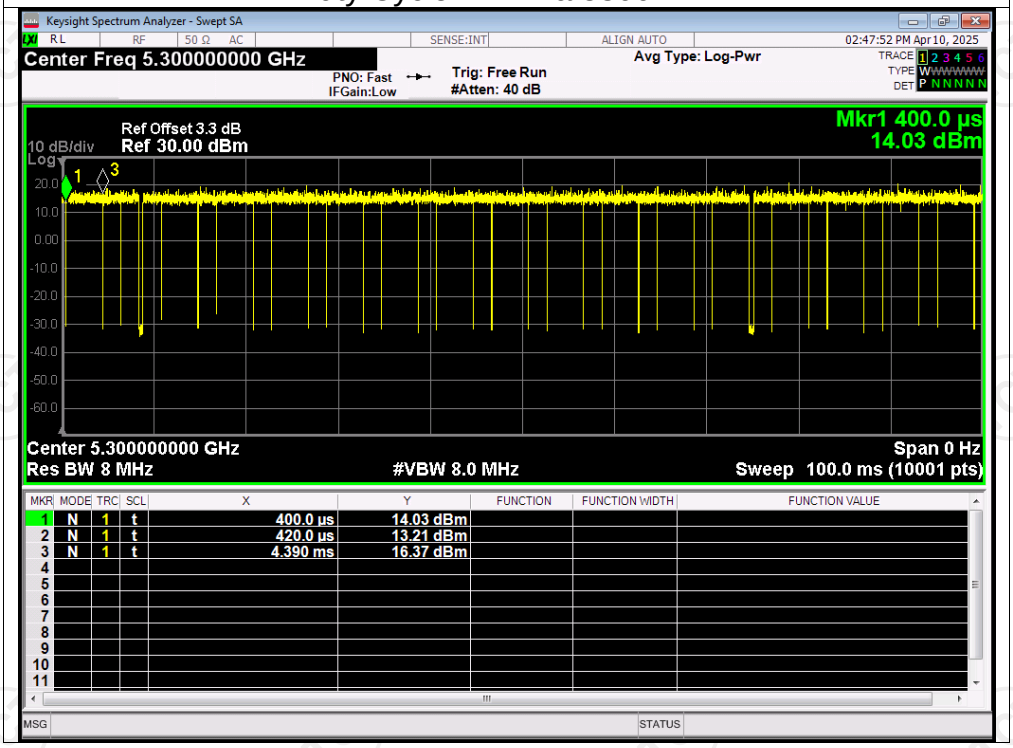


Test Graphs

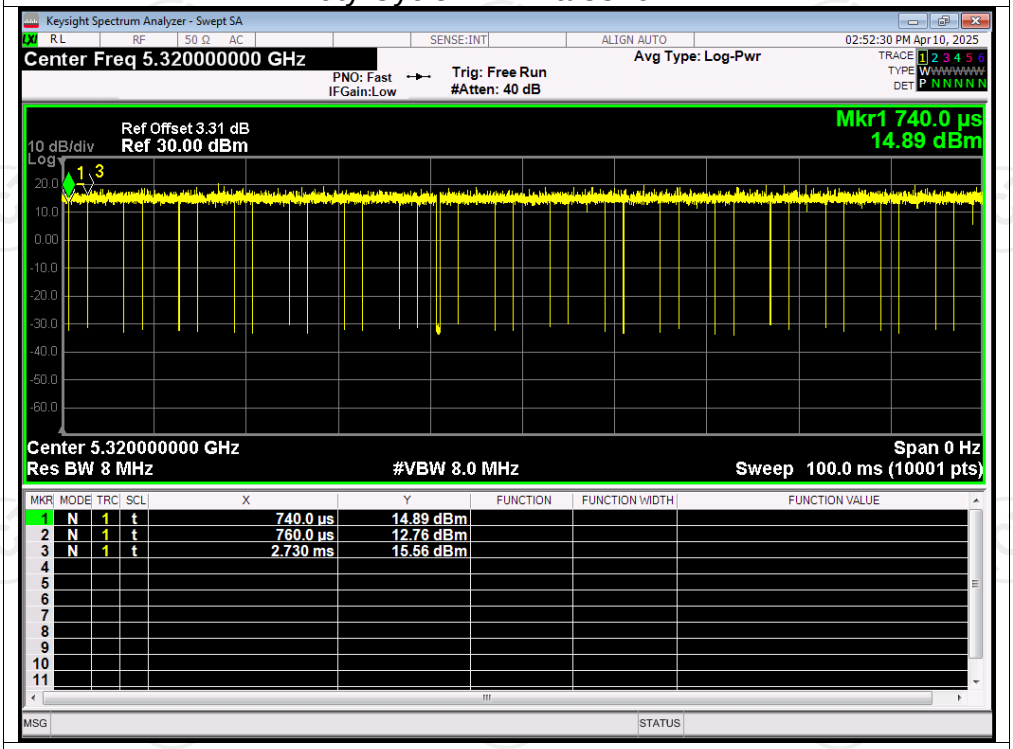
Duty Cycle NVNT a 5260MHz



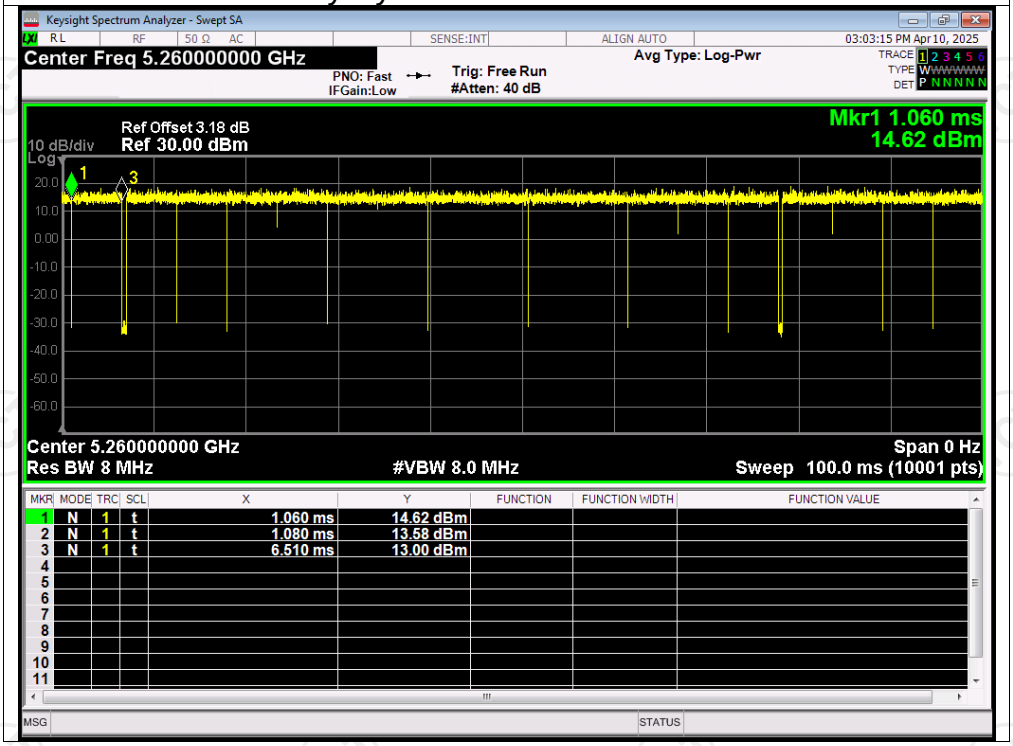
Duty Cycle NVNT a 5300MHz



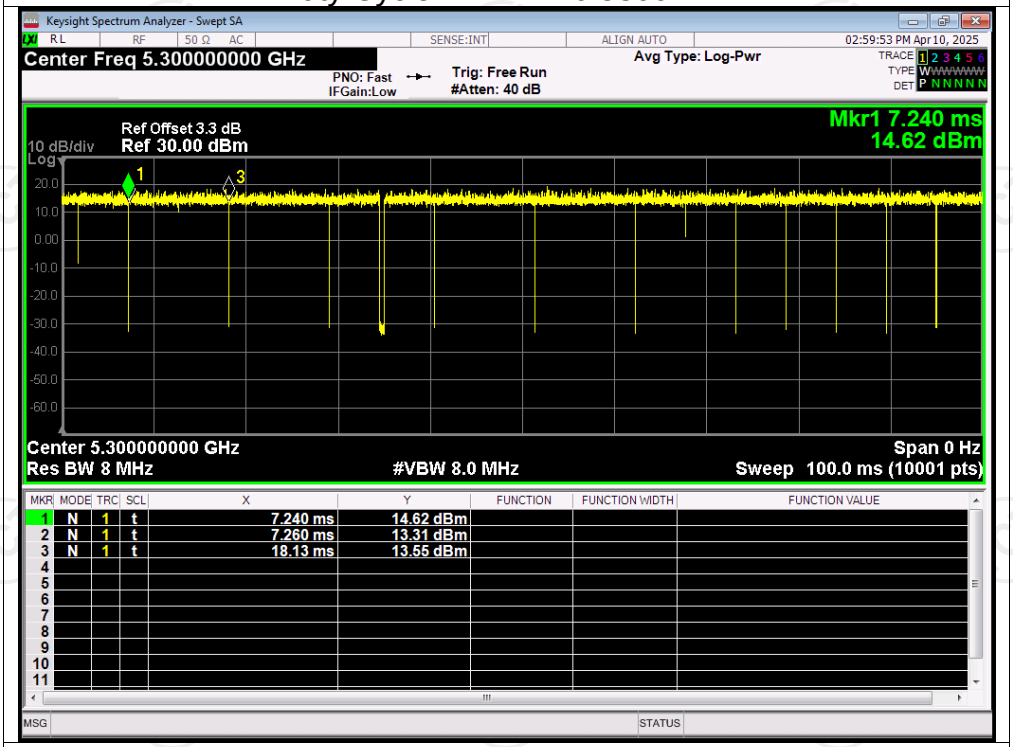
Duty Cycle NVNT a 5320MHz



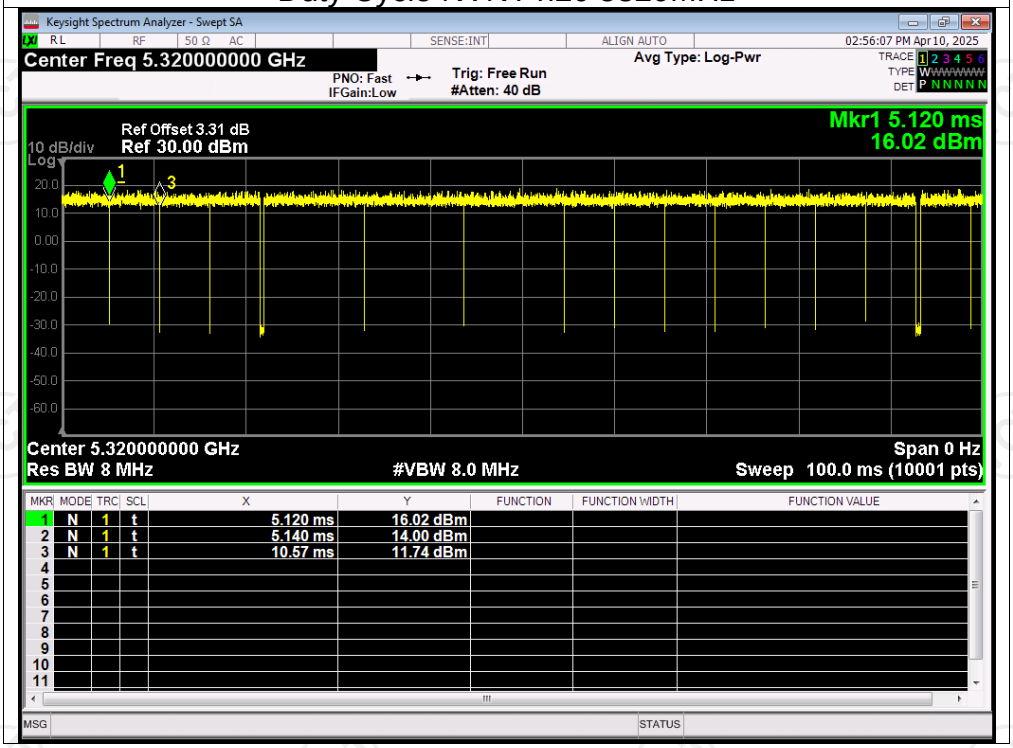
Duty Cycle NVNT n20 5260MHz



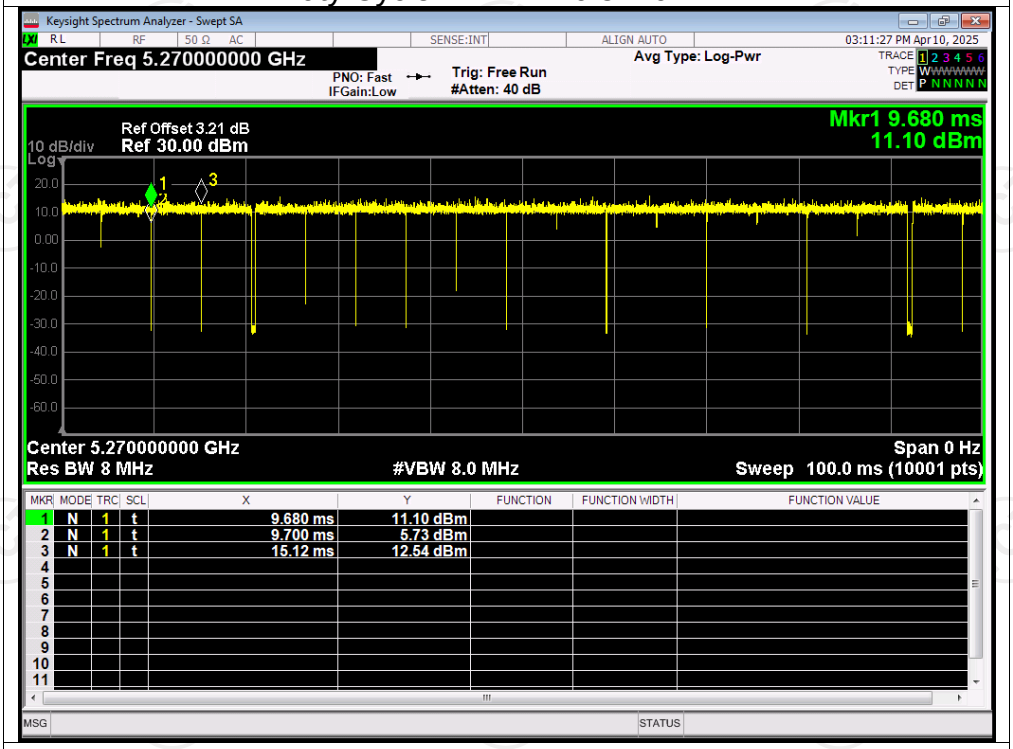
Duty Cycle NVNT n20 5300MHz



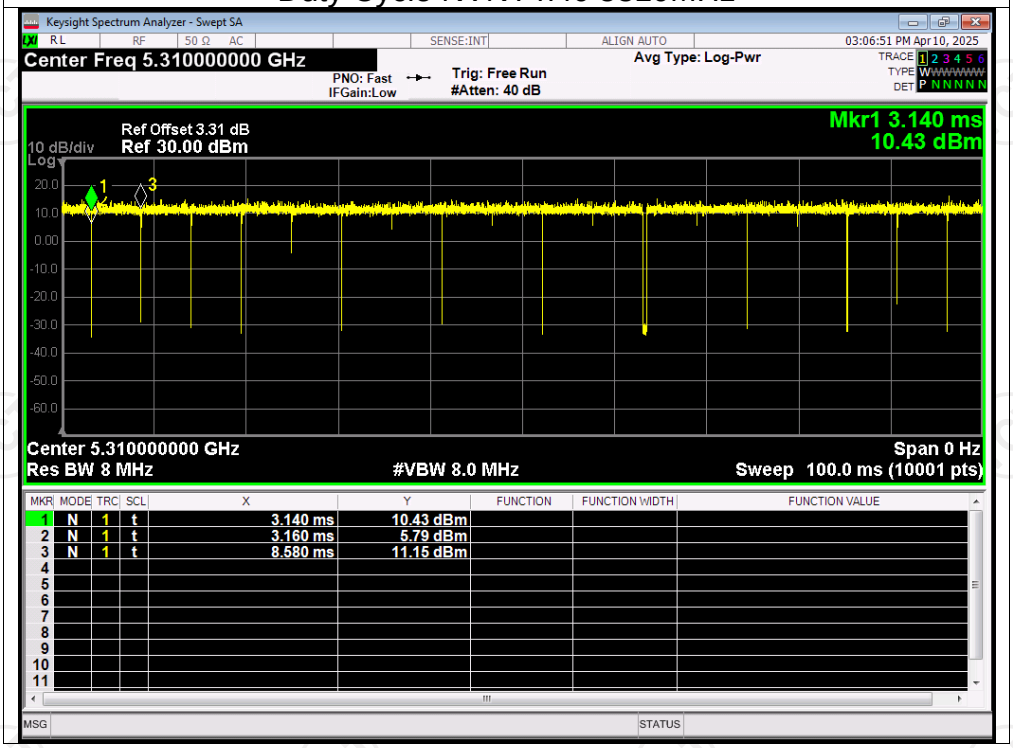
Duty Cycle NVNT n20 5320MHz



Duty Cycle NVNT n40 5270MHz

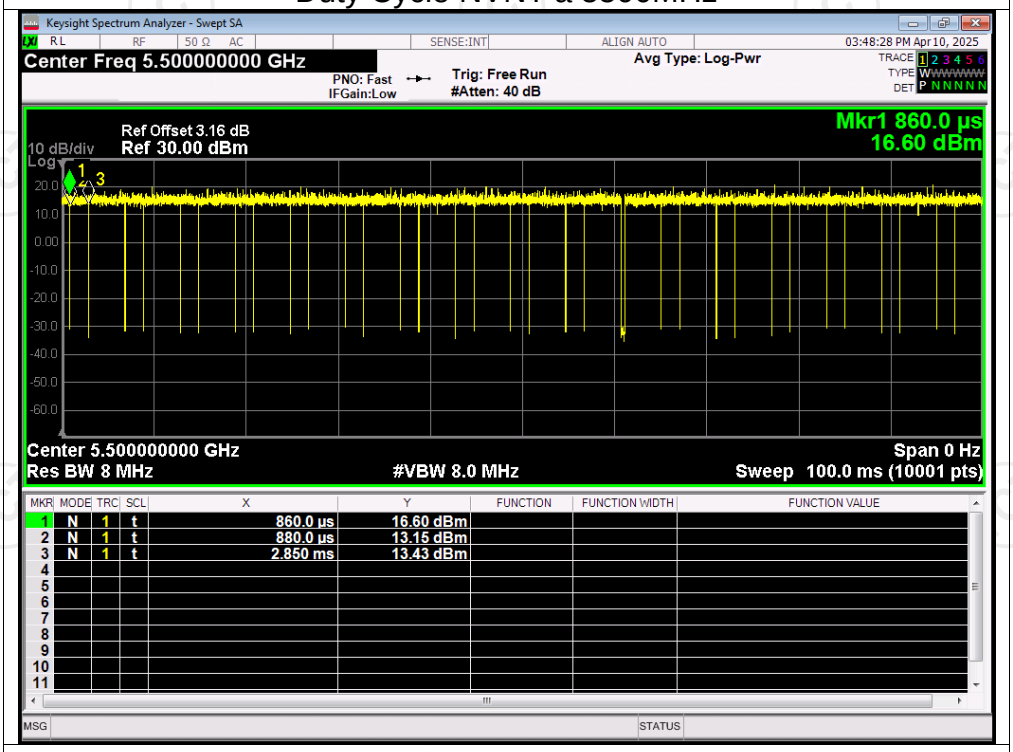


Duty Cycle NVNT n40 5310MHz

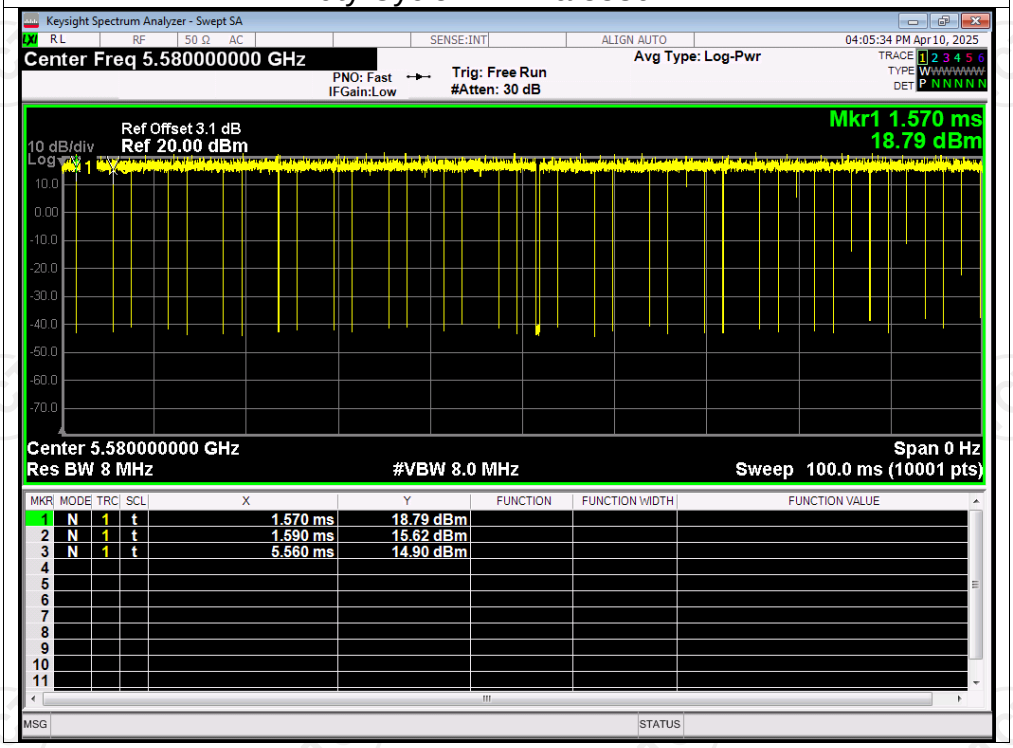


Test Graphs

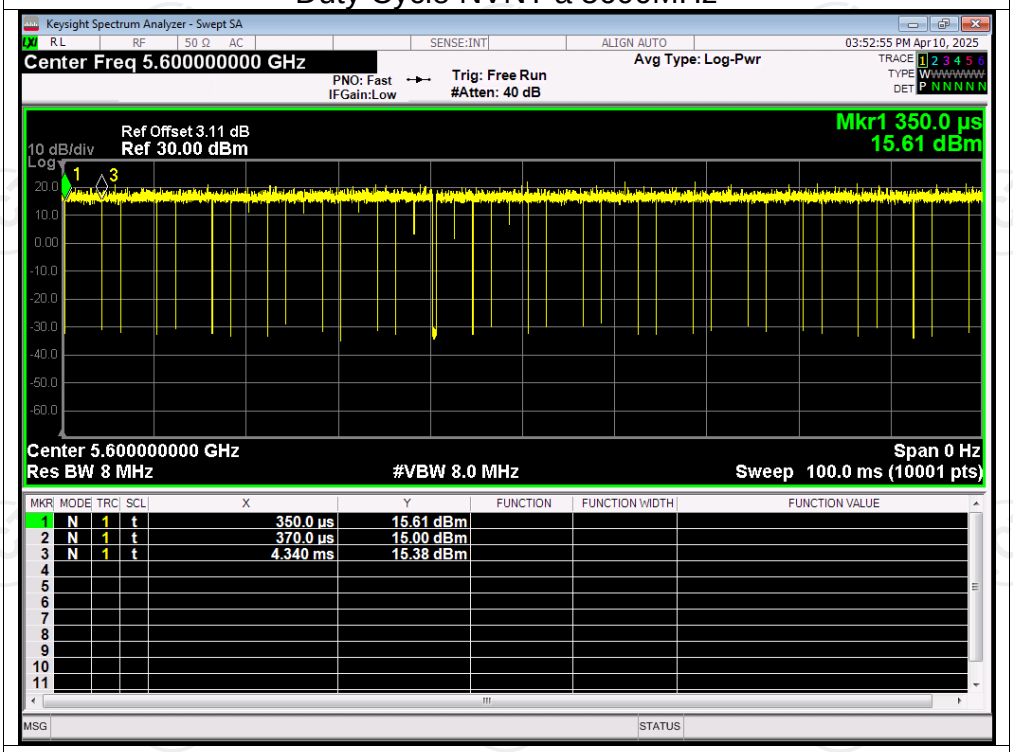
Duty Cycle NVNT a 5500MHz



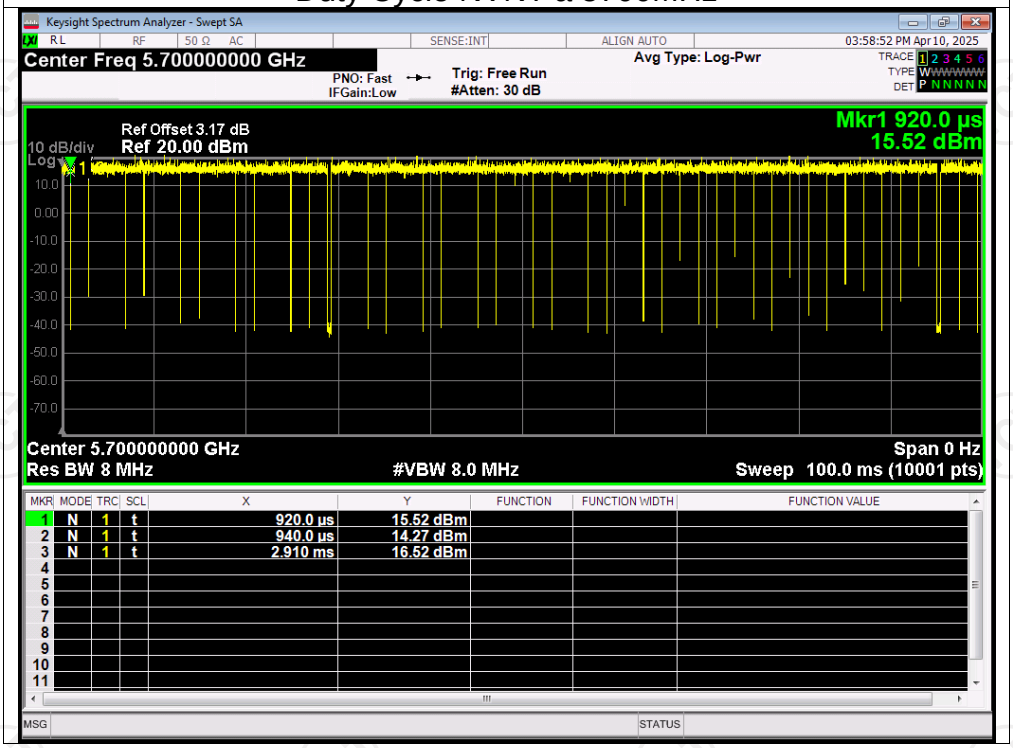
Duty Cycle NVNT a 5580MHz



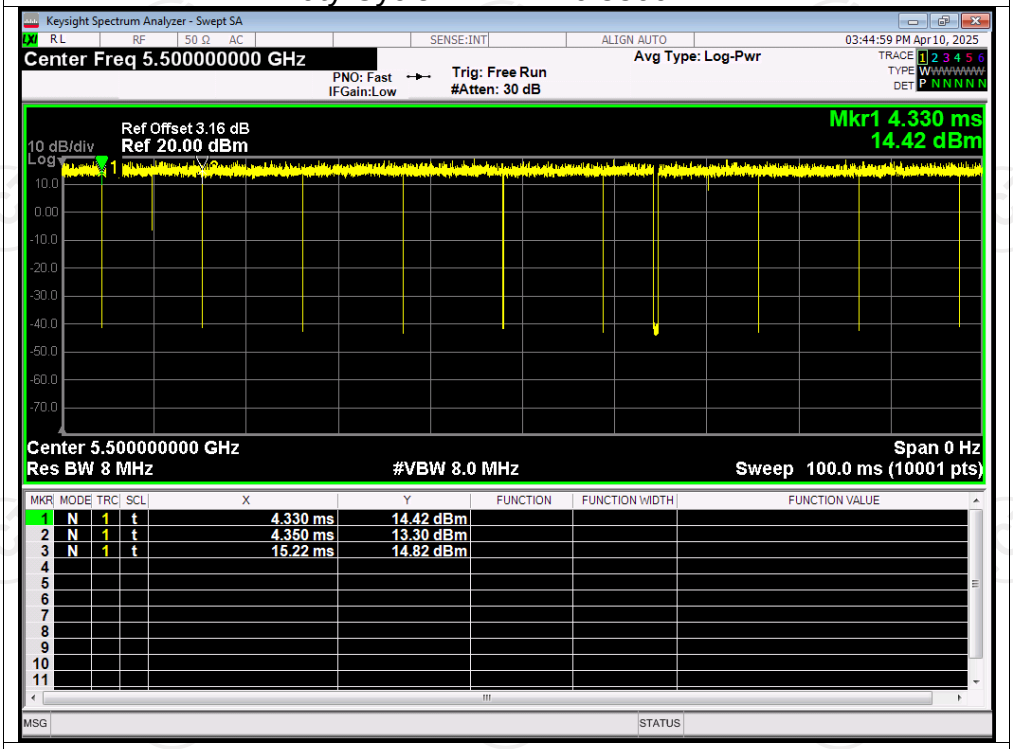
Duty Cycle NVNT a 5600MHz



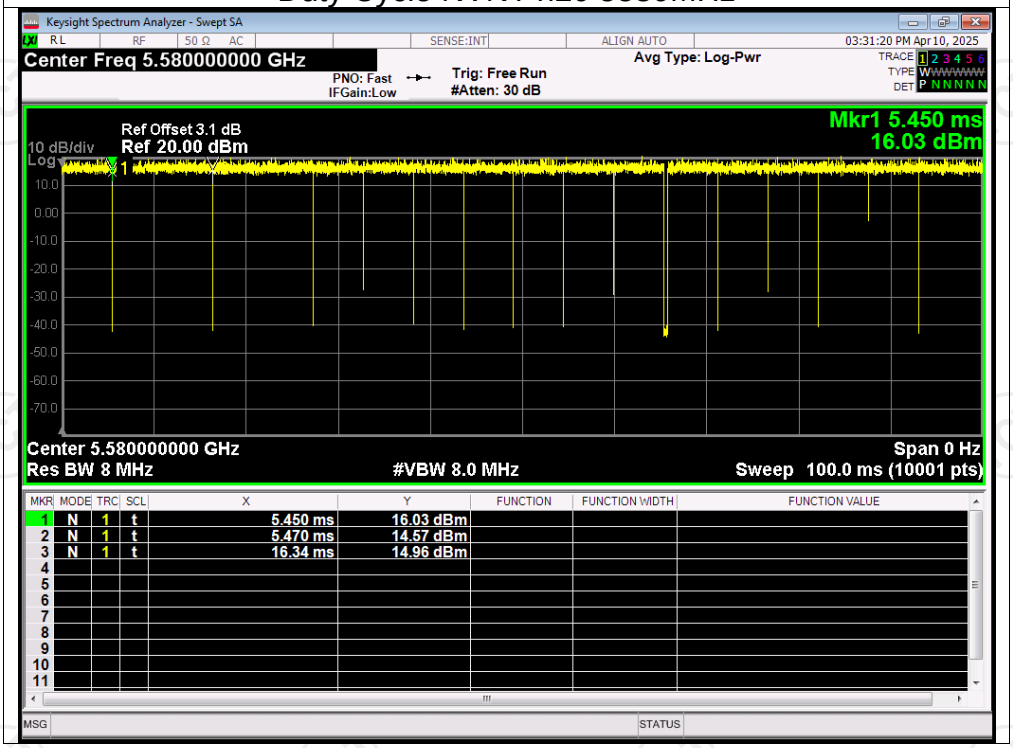
Duty Cycle NVNT a 5700MHz



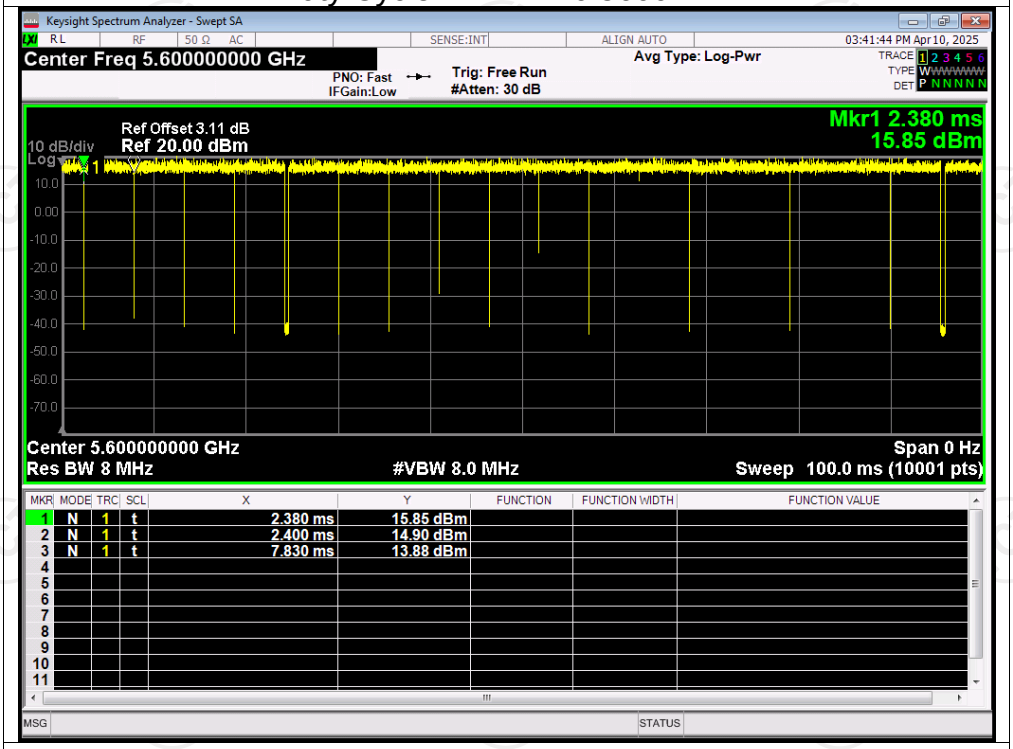
Duty Cycle NVNT n20 5500MHz



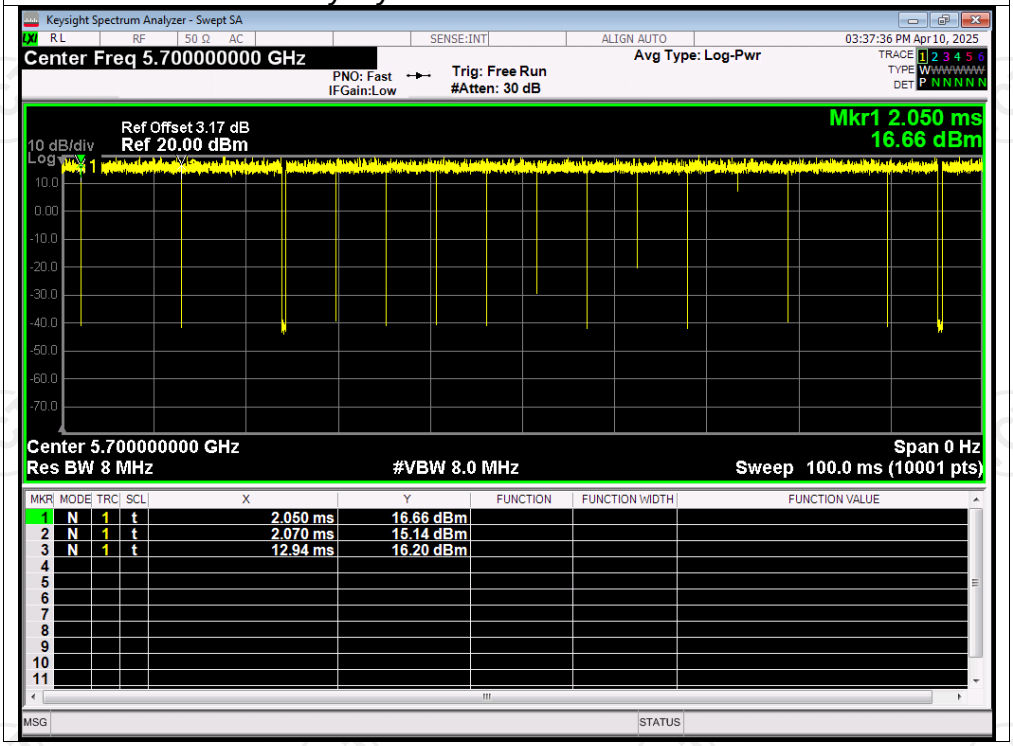
Duty Cycle NVNT n20 5580MHz



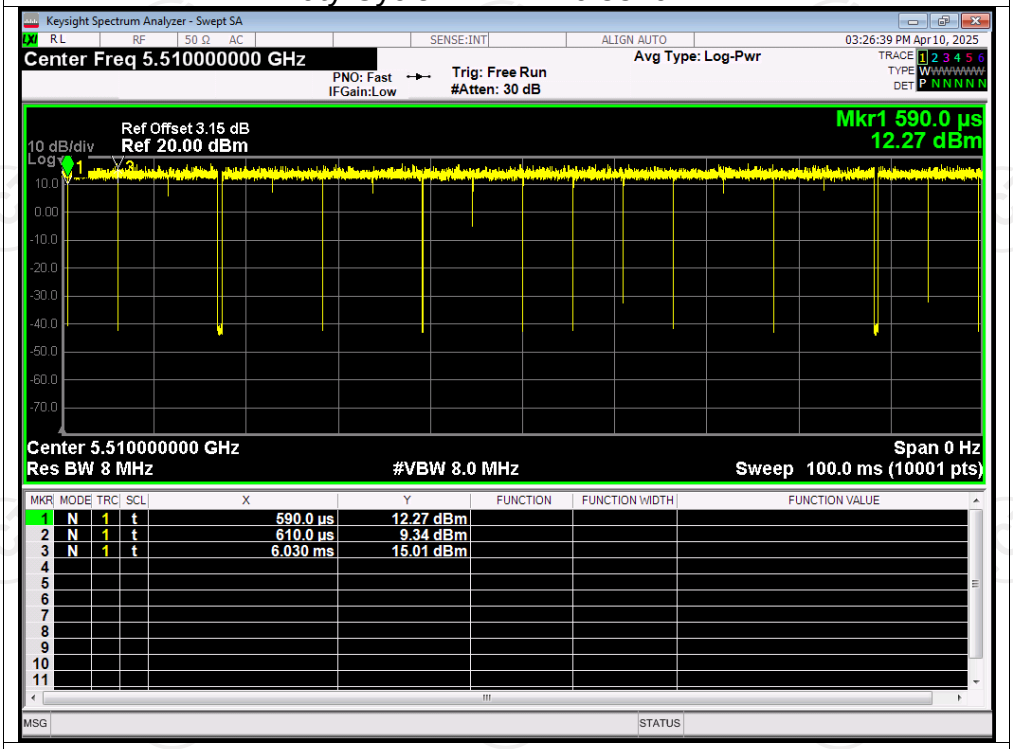
Duty Cycle NVNT n20 5600MHz



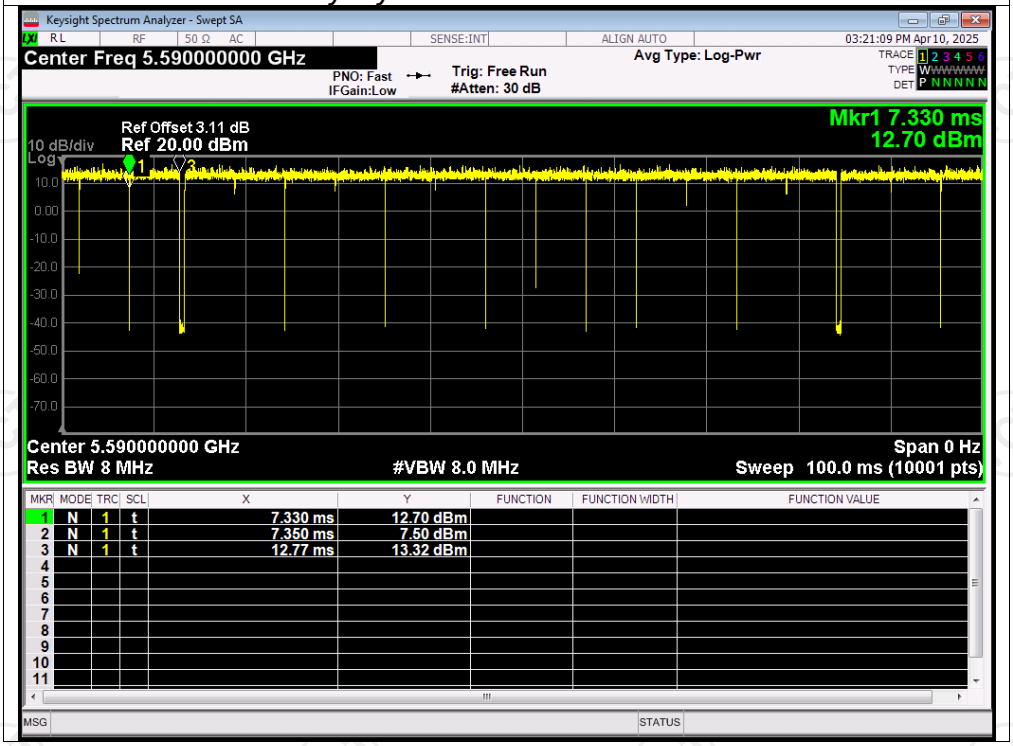
Duty Cycle NVNT n20 5700MHz



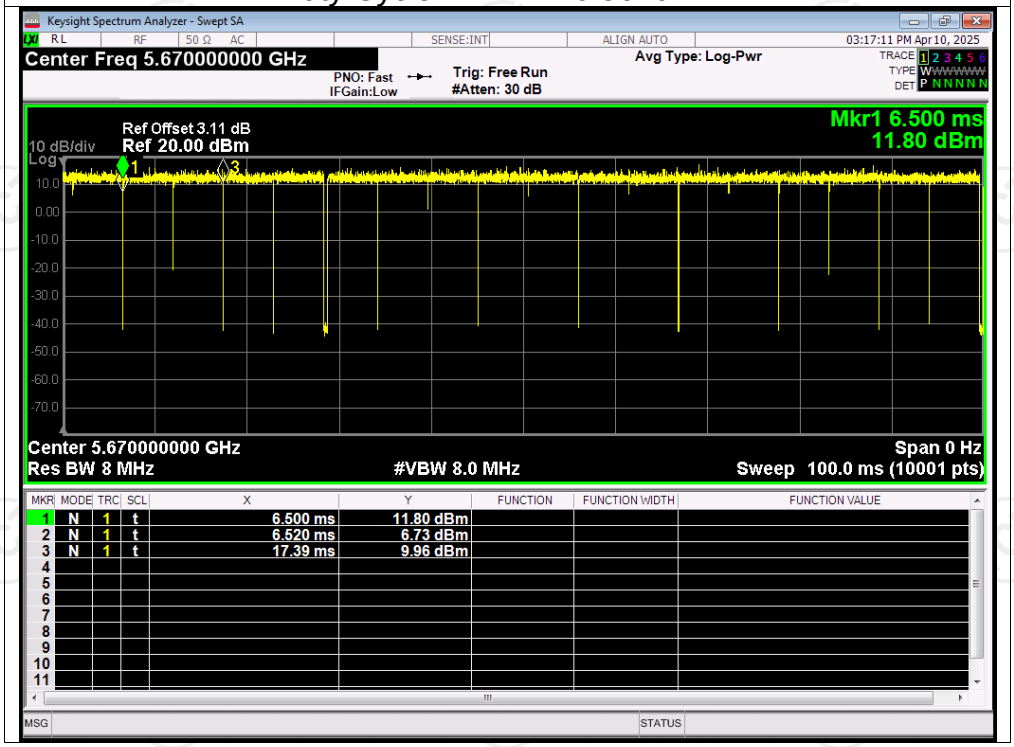
Duty Cycle NVNT n40 5510MHz



Duty Cycle NVNT n40 5590MHz

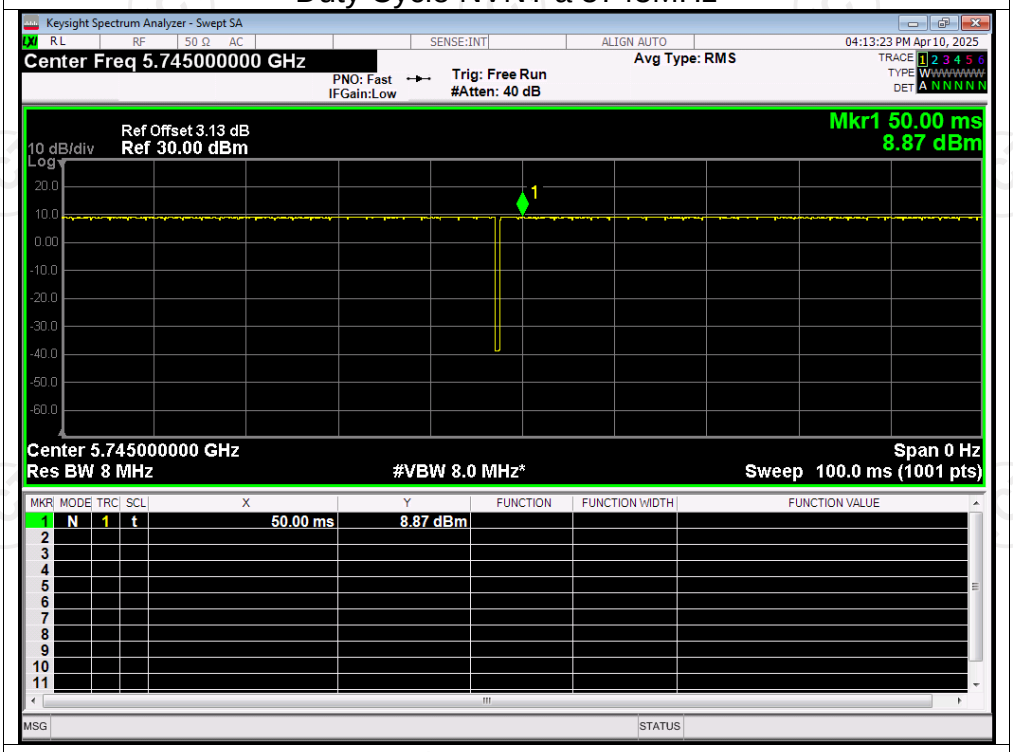


Duty Cycle NVNT n40 5670MHz

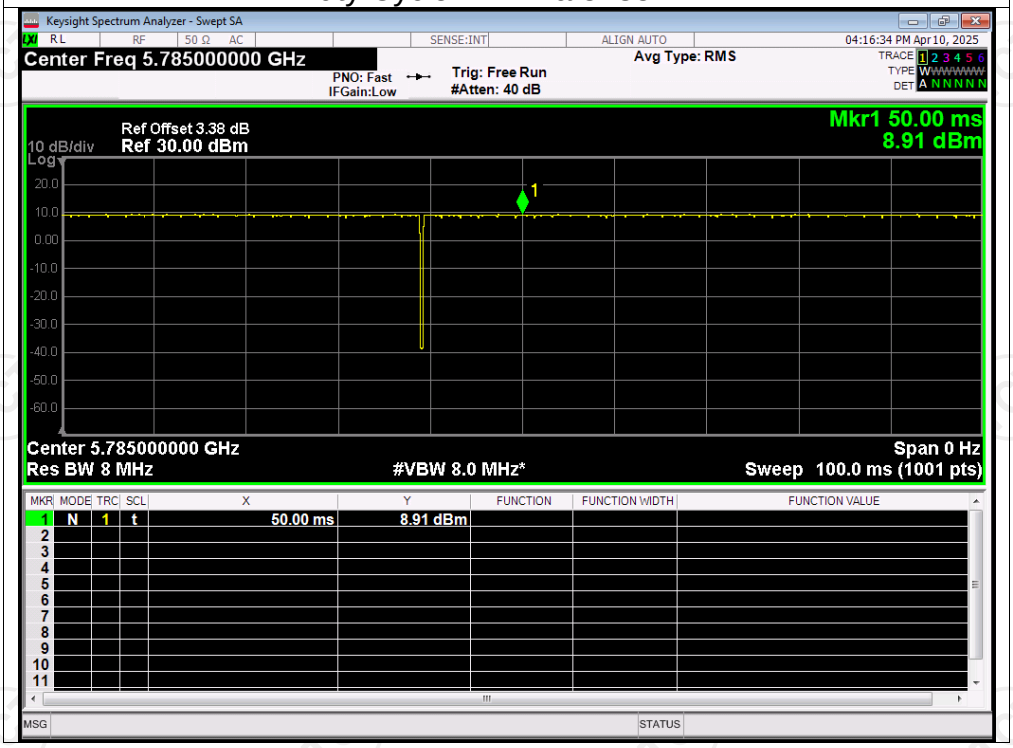


Test Graphs

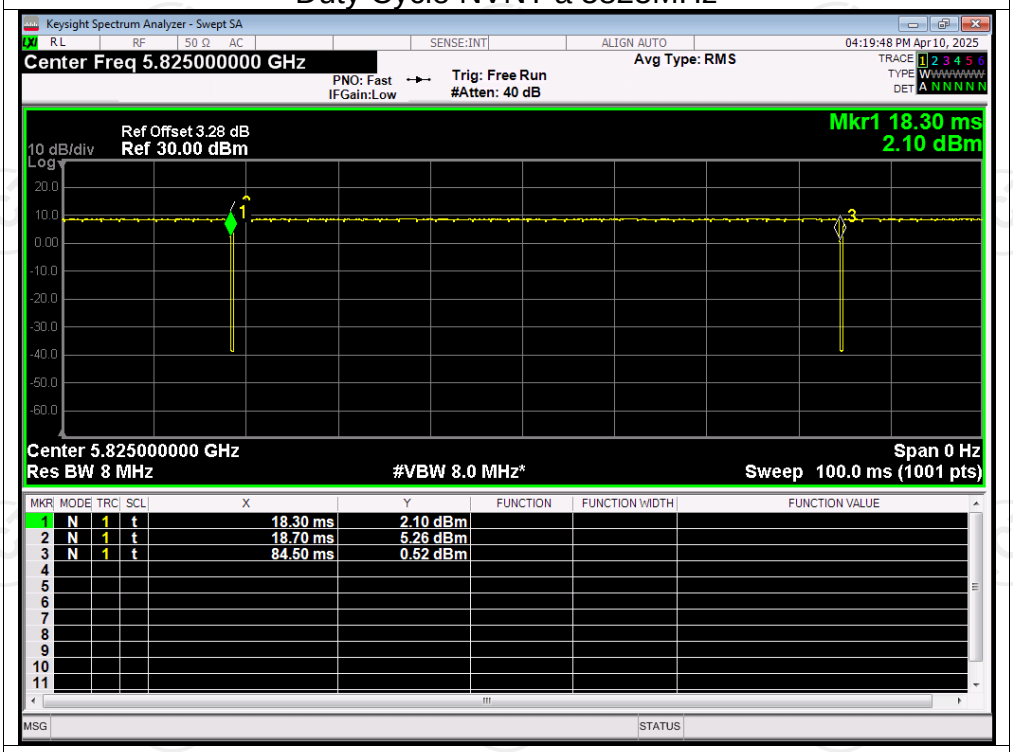
Duty Cycle NVNT a 5745MHz



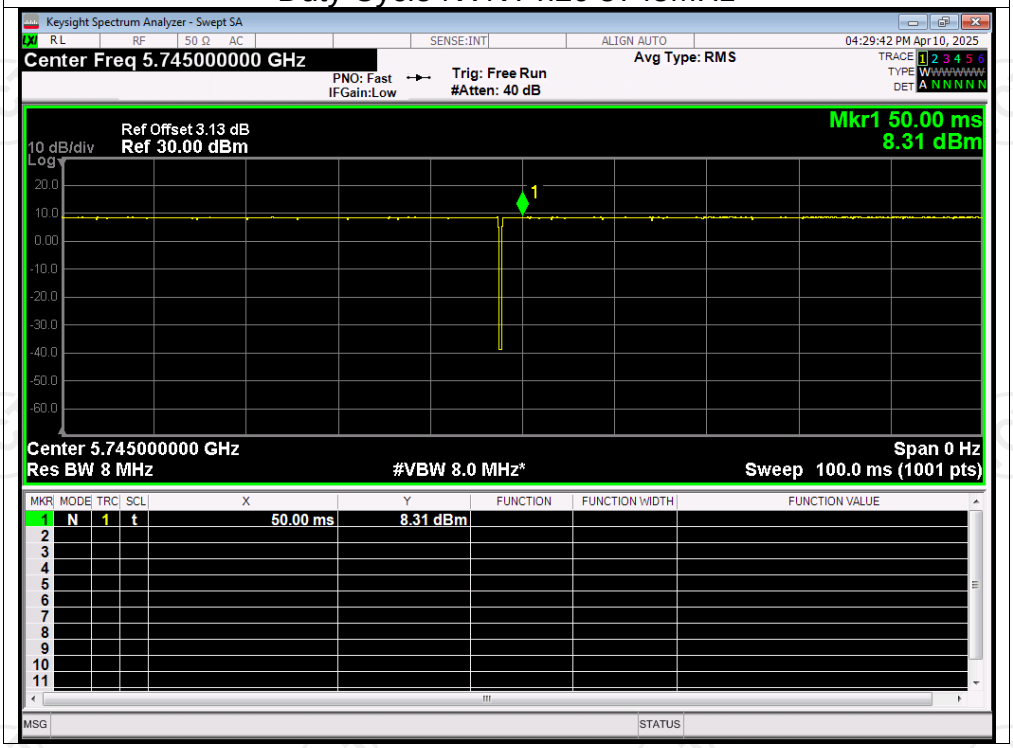
Duty Cycle NVNT a 5785MHz



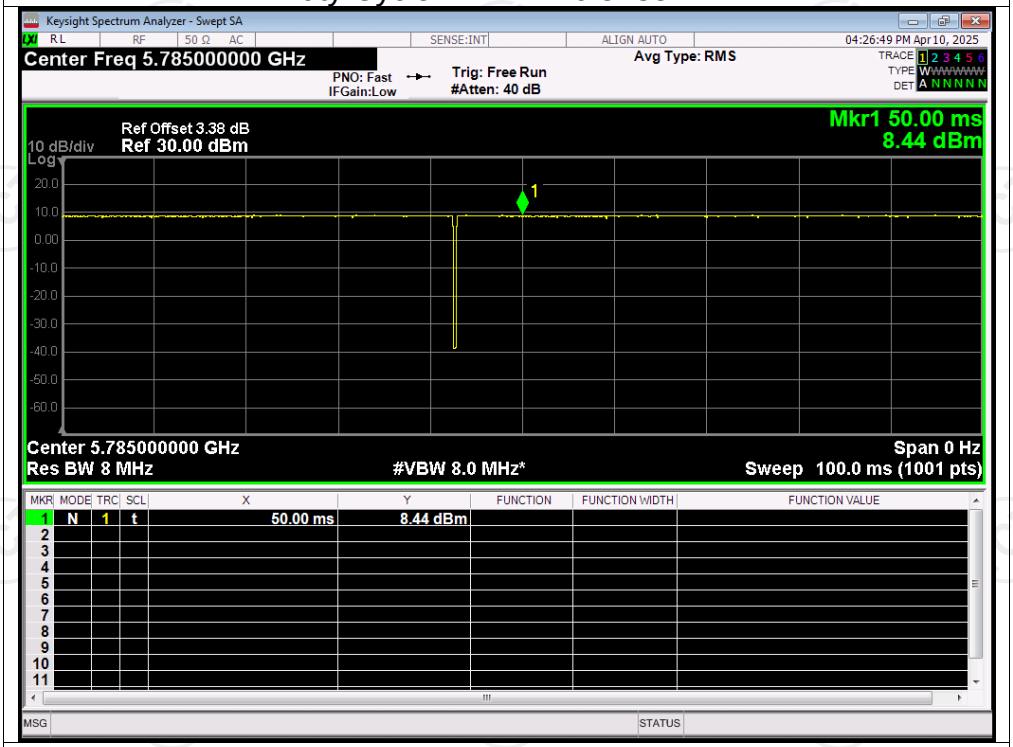
Duty Cycle NVNT a 5825MHz



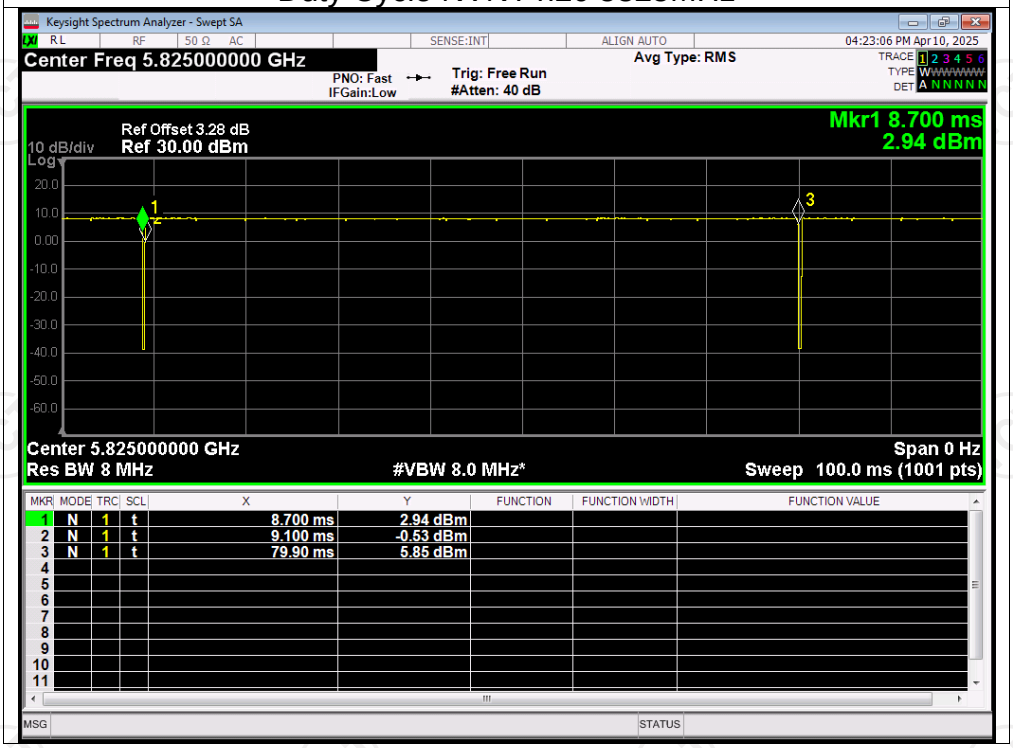
Duty Cycle NVNT n20 5745MHz



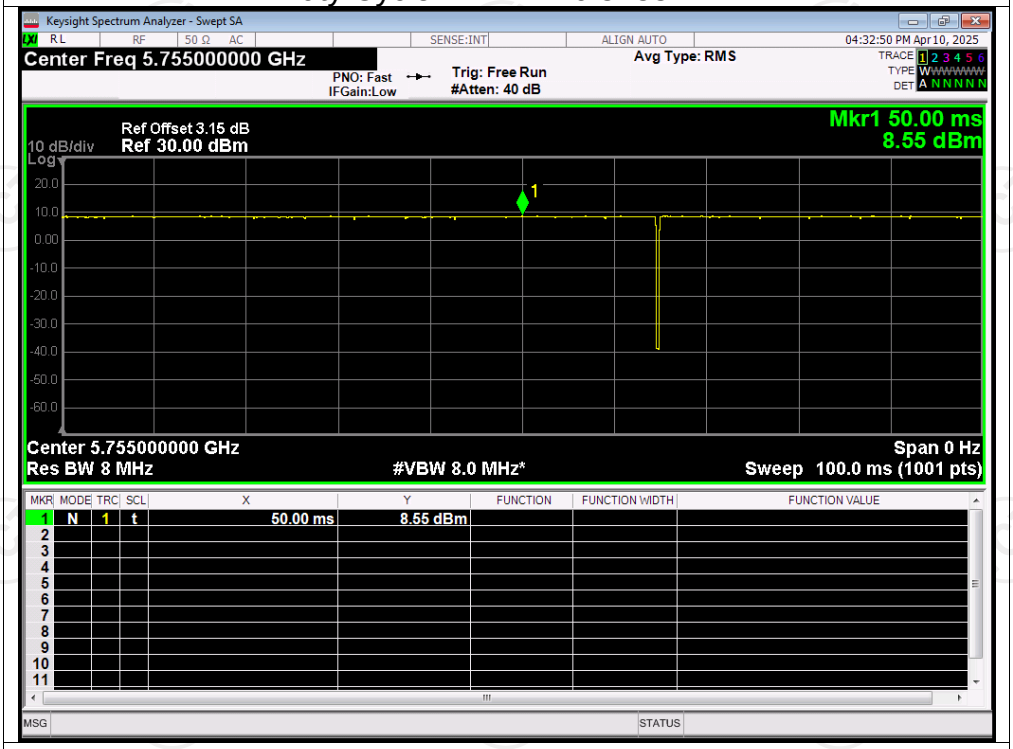
Duty Cycle NVNT n20 5785MHz



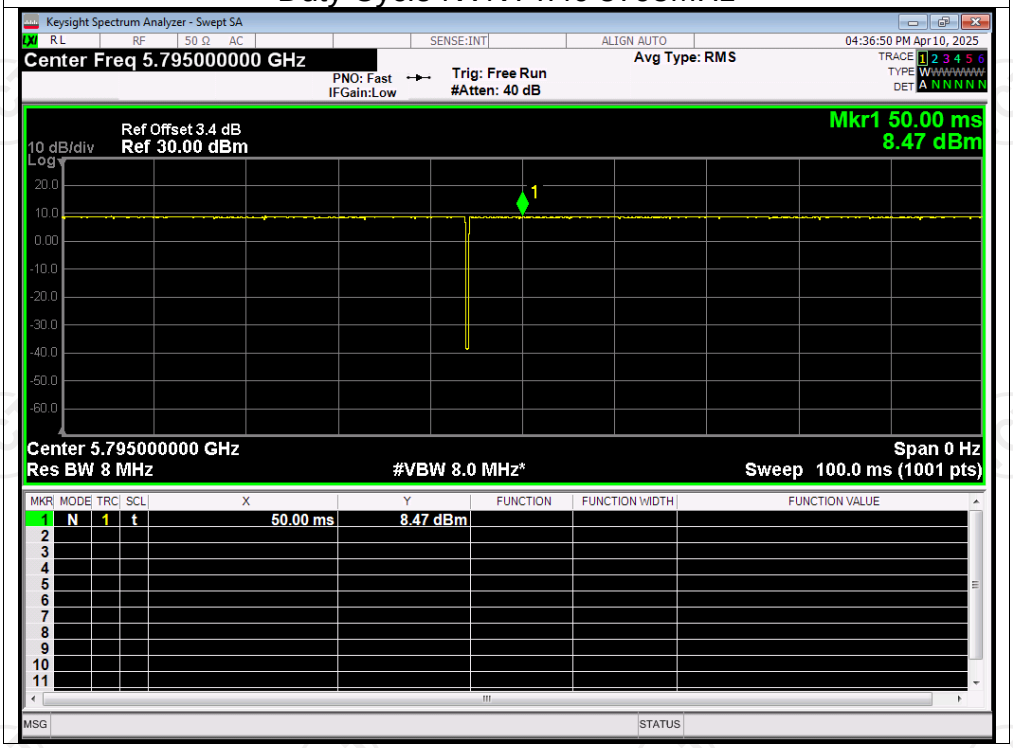
Duty Cycle NVNT n20 5825MHz



Duty Cycle NVNT n40 5755MHz



Duty Cycle NVNT n40 5795MHz



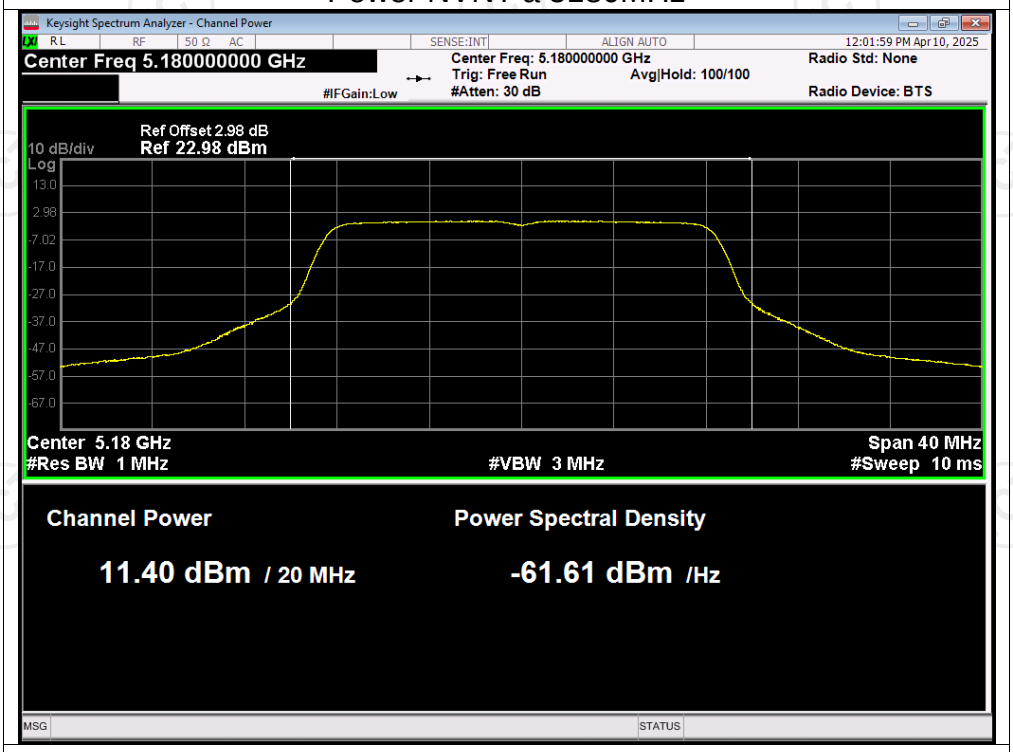
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	11.4	24	Pass
NVNT	a	5200	11.62	24	Pass
NVNT	a	5240	11.67	24	Pass
NVNT	n20	5180	11.22	24	Pass
NVNT	n20	5200	11.25	24	Pass
NVNT	n20	5240	11.5	24	Pass
NVNT	n40	5190	11.45	24	Pass
NVNT	n40	5230	11.63	24	Pass
NVNT	a	5260	11.62	24	Pass
NVNT	a	5300	11.64	24	Pass
NVNT	a	5320	11.49	24	Pass
NVNT	n20	5260	11.37	24	Pass
NVNT	n20	5300	11.39	24	Pass
NVNT	n20	5320	11.3	24	Pass
NVNT	n40	5270	11.51	24	Pass
NVNT	n40	5310	11.59	24	Pass
NVNT	a	5500	11.49	24	Pass
NVNT	a	5580	13.06	24	Pass
NVNT	a	5600	12.98	24	Pass
NVNT	a	5700	12.45	24	Pass
NVNT	n20	5500	11.3	24	Pass
NVNT	n20	5580	12.89	24	Pass
NVNT	n20	5600	12.72	24	Pass
NVNT	n20	5700	12.23	24	Pass
NVNT	n40	5510	13.55	24	Pass
NVNT	n40	5590	12.96	24	Pass
NVNT	n40	5670	12.33	24	Pass
NVNT	a	5745	12.42	30	Pass
NVNT	a	5785	12.79	30	Pass
NVNT	a	5825	12.2	30	Pass
NVNT	n20	5745	12.23	30	Pass
NVNT	n20	5785	12.58	30	Pass
NVNT	n20	5825	12.01	30	Pass
NVNT	n40	5755	12.24	30	Pass
NVNT	n40	5795	12.57	30	Pass

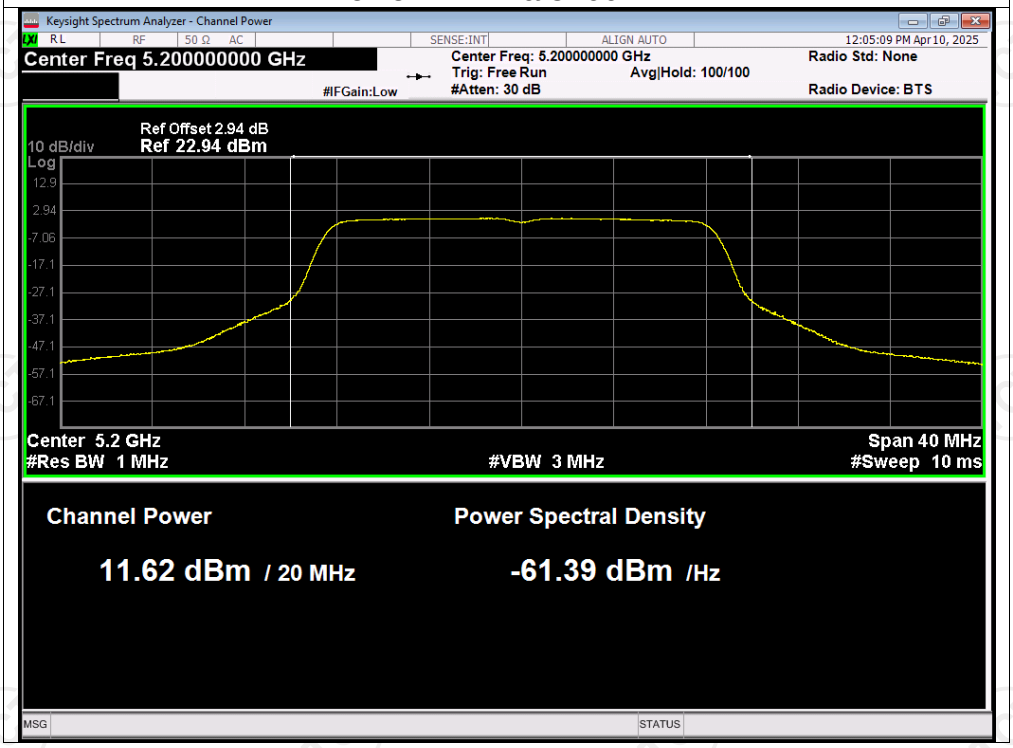
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Test Graphs

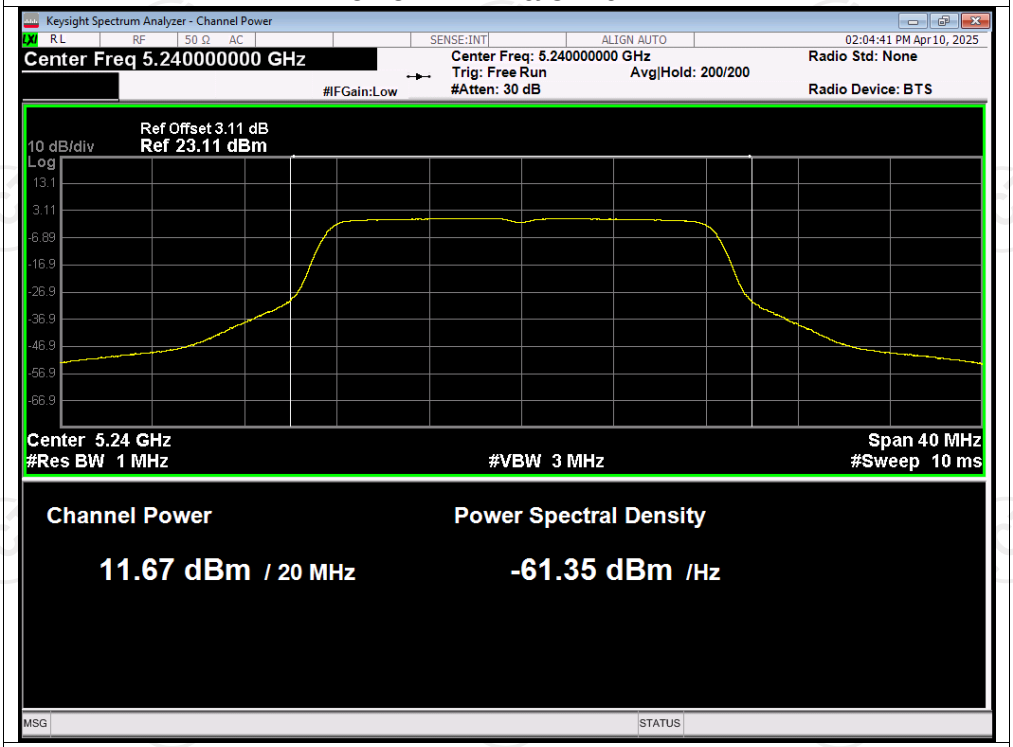
Power NVNT a 5180MHz



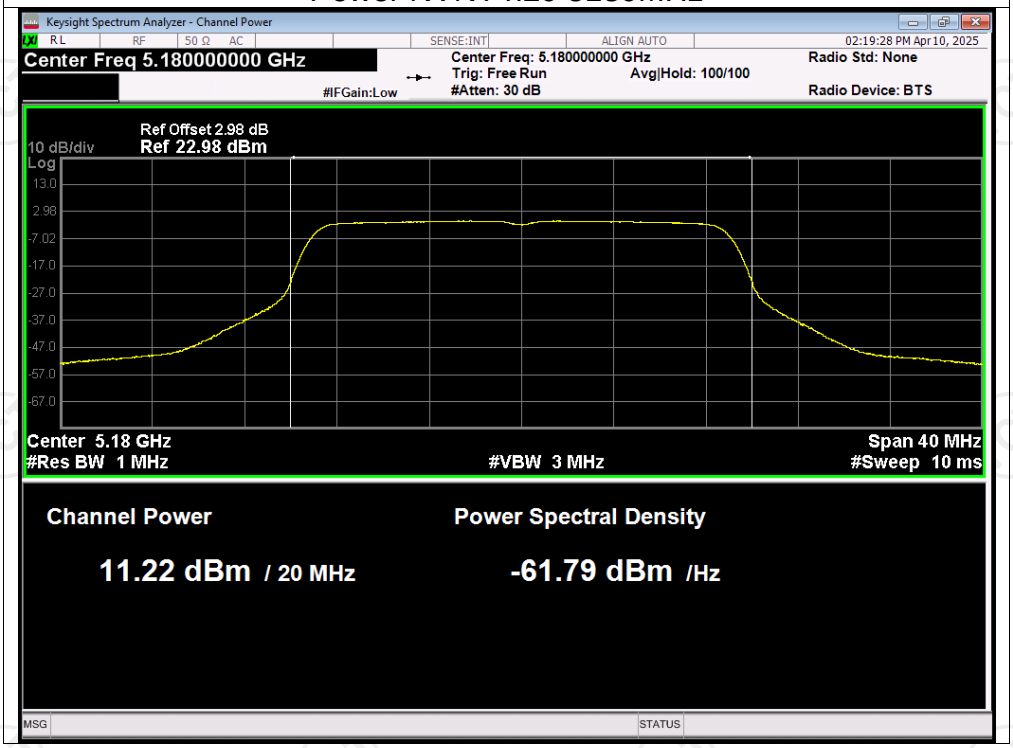
Power NVNT a 5200MHz



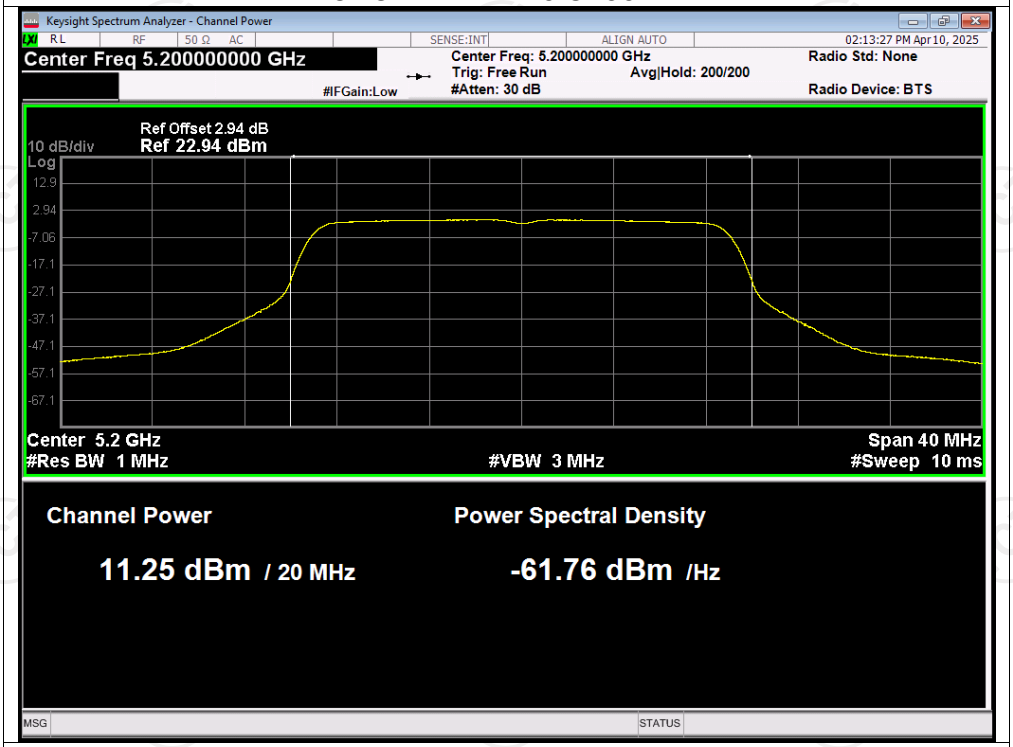
Power NVNT a 5240MHz



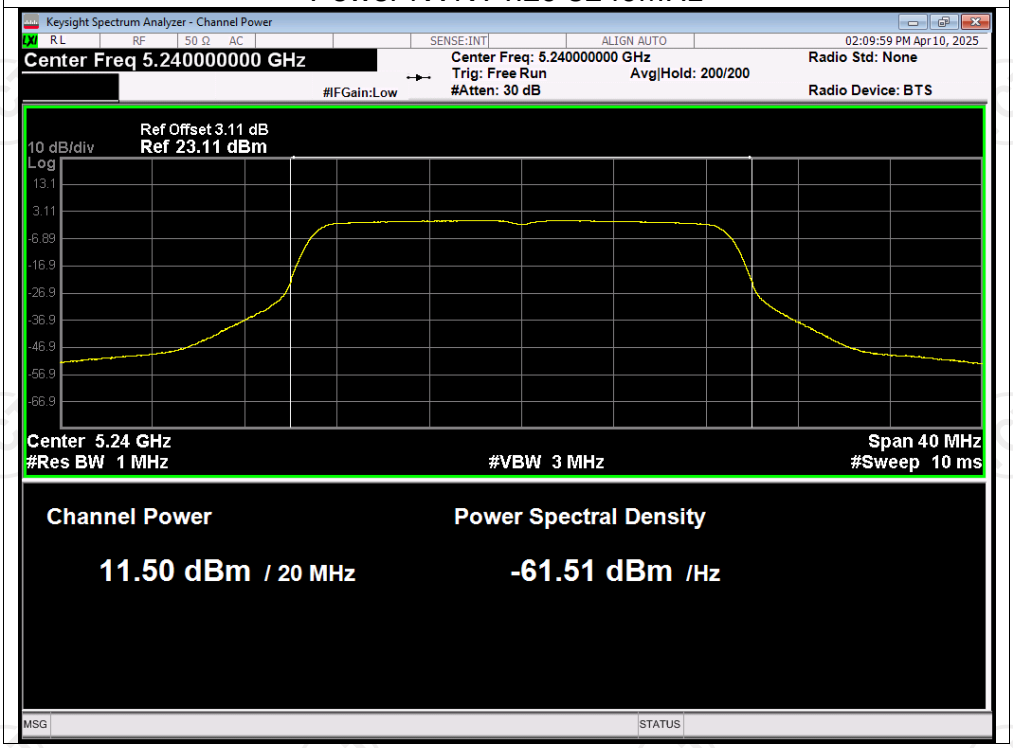
Power NVNT n20 5180MHz



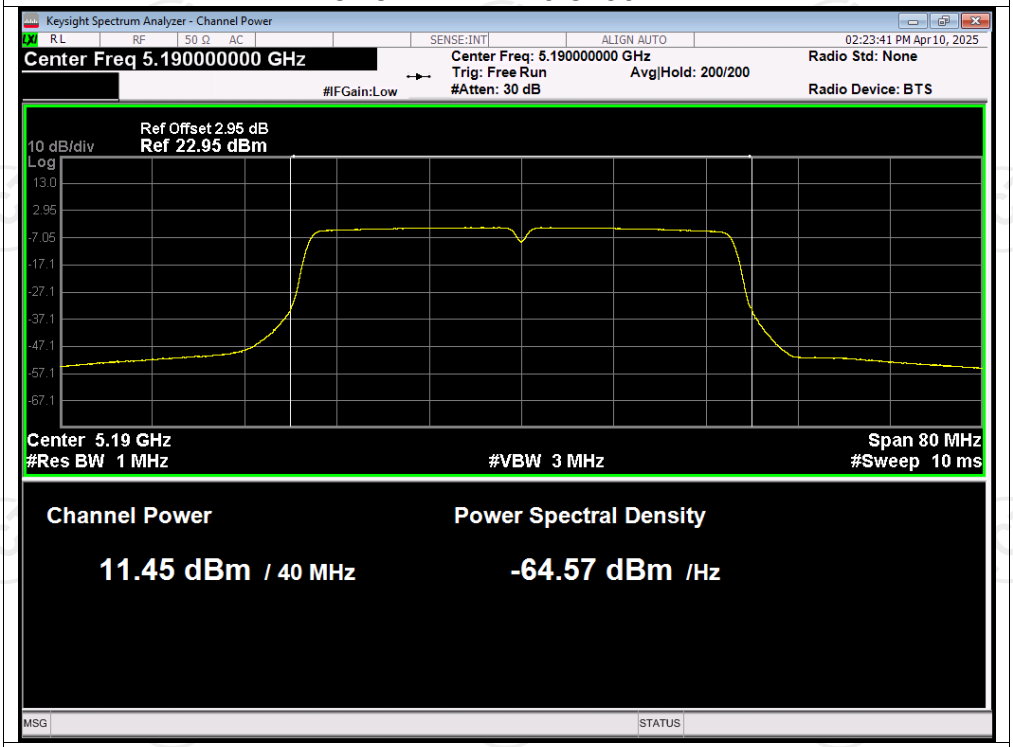
Power NVNT n20 5200MHz



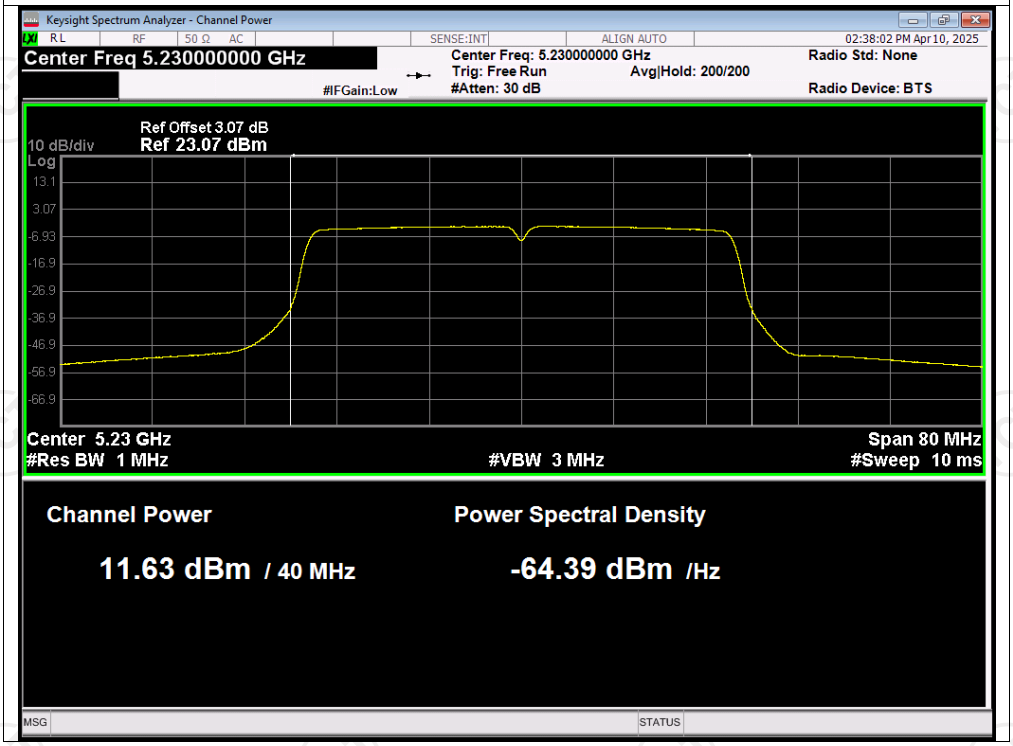
Power NVNT n20 5240MHz



Power NVNT n40 5190MHz

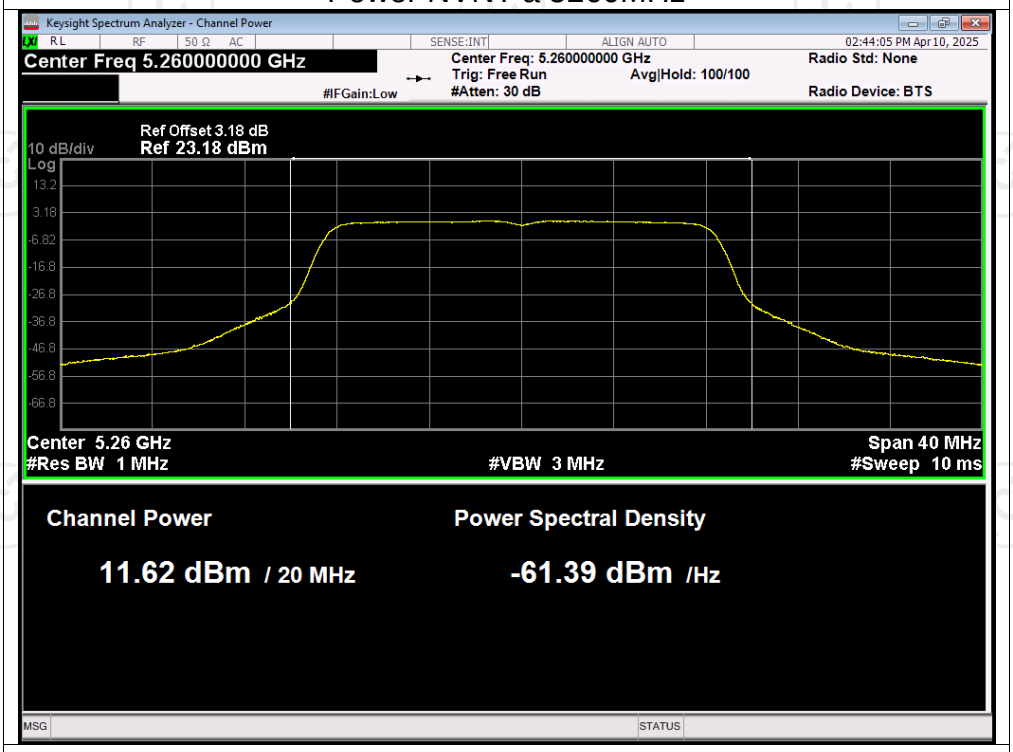


Power NVNT n40 5230MHz

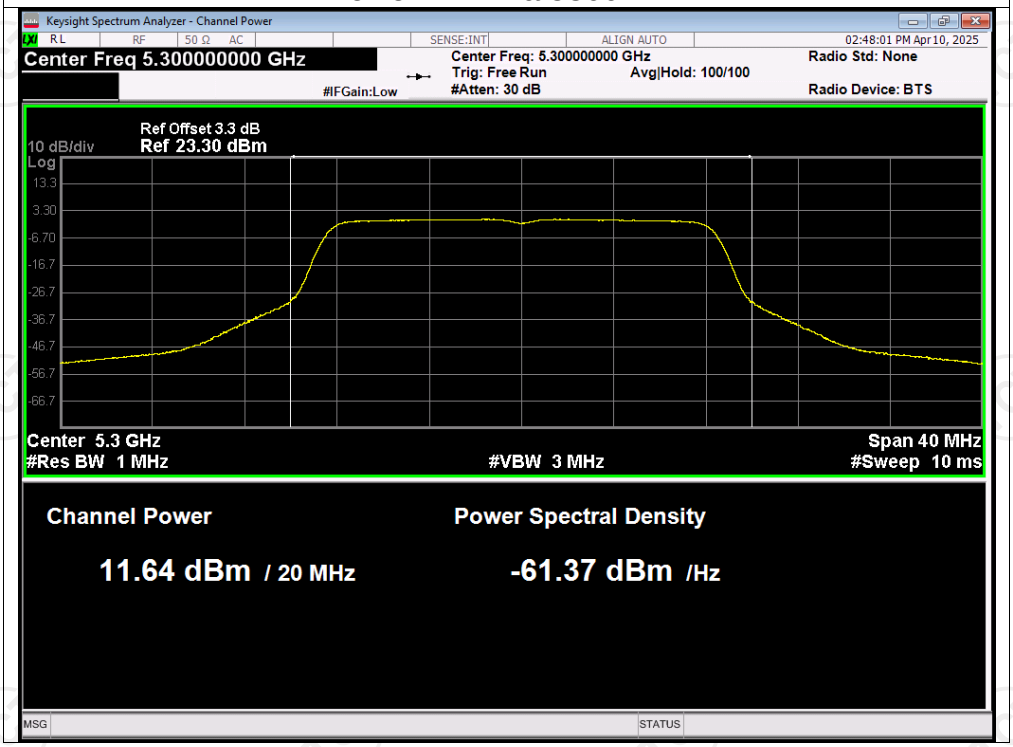


Test Graphs

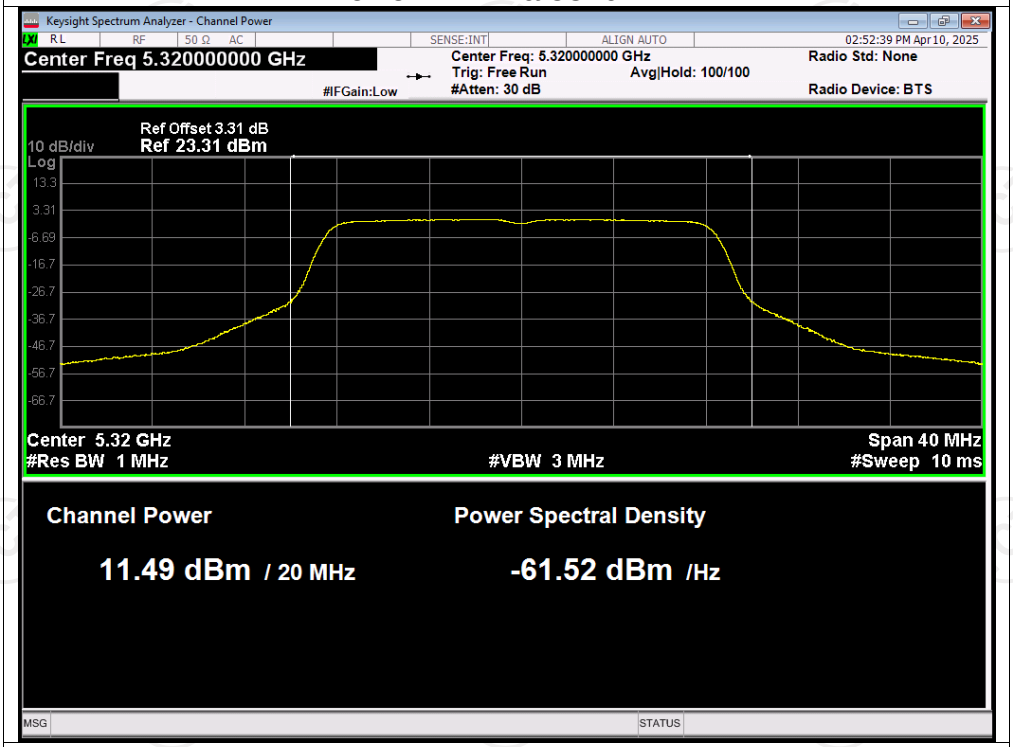
Power NVNT a 5260MHz



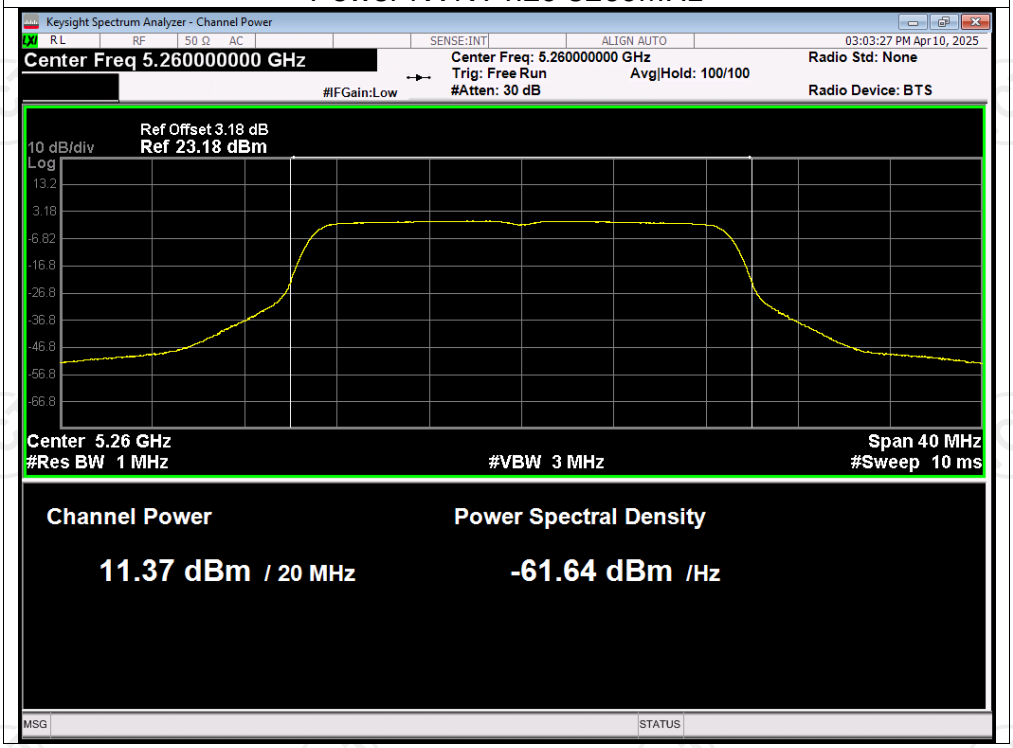
Power NVNT a 5300MHz



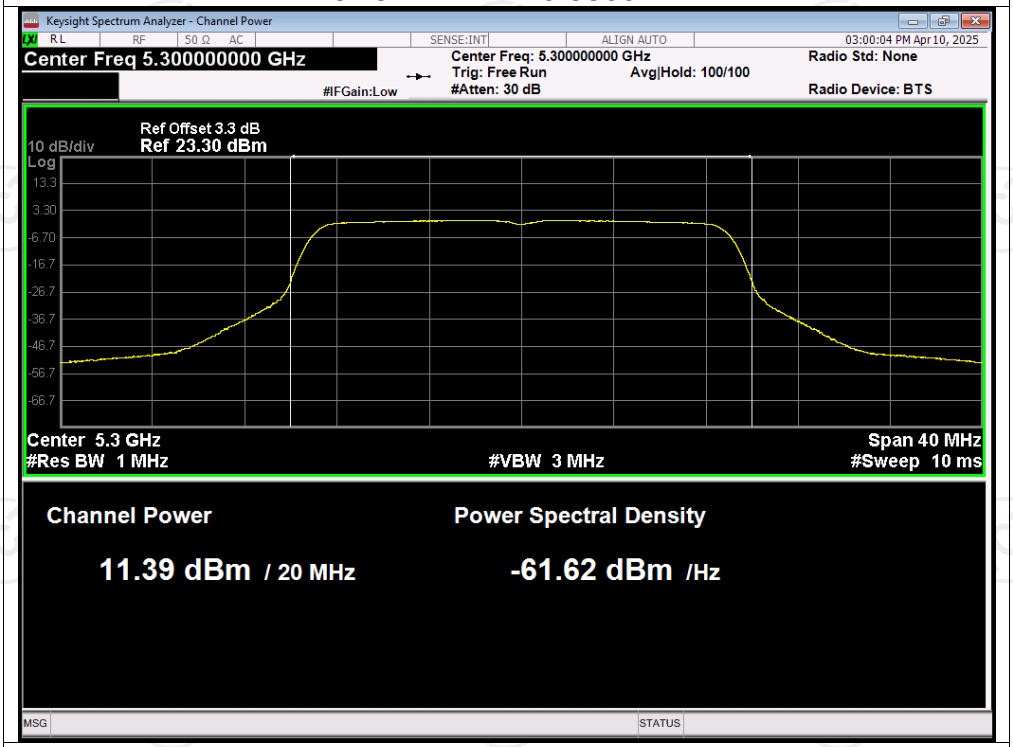
Power NVNT a 5320MHz



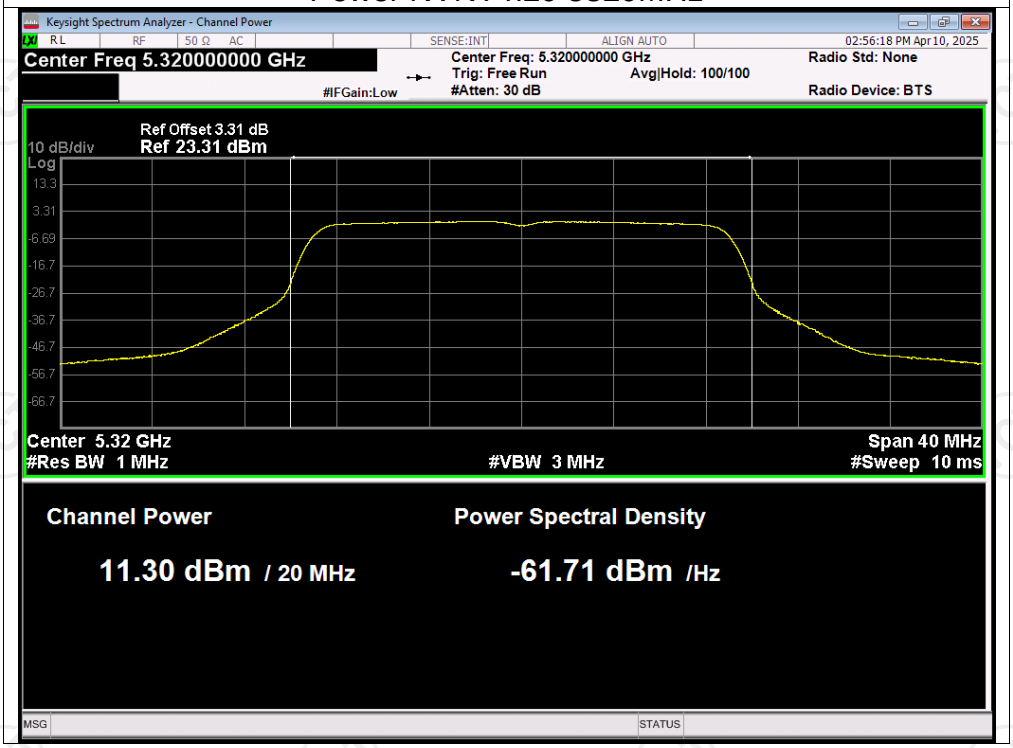
Power NVNT n20 5260MHz



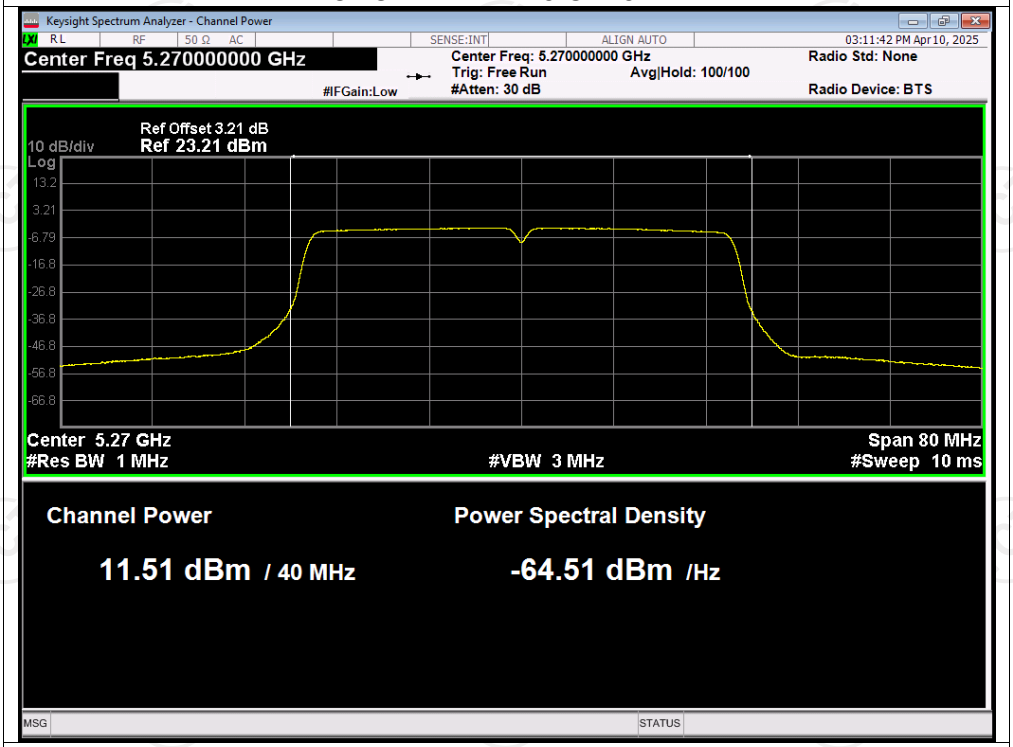
Power NVNT n20 5300MHz



Power NVNT n20 5320MHz



Power NVNT n40 5270MHz



Power NVNT n40 5310MHz